

Requester's Full Name: _____ Examiner #: _____ Date: _____
Art Unit: _____ Phone Number 30 _____ Serial Number: _____
Mail Box and Bldg Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

STAFF USE ONLY

| | Type of Search | Vendors and cost where applicable |
|---|--------------------------|-----------------------------------|
| Searcher: <u>P. Schwab</u> | NA Sequence (#) <u>2</u> | STN _____ |
| Searcher Phone #: <u>277-2526</u> | AA Sequence (#) <u>1</u> | Dialog _____ |
| Searcher Location: <u>Remsen E01A61</u> | Structure (#) _____ | Questel/Orbit _____ |
| Date Searcher Picked Up: _____ | Bibliographic _____ | Dr. Link _____ |
| Date Completed: <u>4/15</u> | Litigation _____ | Lexis/Nexis _____ |
| Searcher Prep & Review Time: <u>12</u> | Fulltext _____ | Sequence Systems <u>Campan</u> |

| | | | | | |
|-----|------|------|----------------------|----------------------|-------------------|
| 0.0 | 0.0 | 433 | 12 | US-10-085-783A-43377 | Sequence 43377, A |
| 0.0 | 0.0 | 433 | 15 | US-10-242-535A-43377 | Sequence 43377, A |
| 0.0 | 0.0 | 433 | 12 | US-10-085-783A-35025 | Sequence 35025, A |
| 0.0 | 0.0 | 433 | 15 | US-10-242-535A-35025 | Sequence 35025, A |
| 0.0 | 0.0 | 467 | 12 | US-10-085-783A-39933 | Sequence 39933, A |
| 0.0 | 0.0 | 467 | 15 | US-10-242-535A-39933 | Sequence 39933, A |
| 0.0 | 0.0 | 471 | 12 | US-10-085-783A-57254 | Sequence 57254, A |
| 0.0 | 0.0 | 471 | 15 | US-10-242-535A-57254 | Sequence 57254, A |
| 0.0 | 0.0 | 472 | 12 | US-10-085-783A-56068 | Sequence 56068, A |
| 0.0 | 0.0 | 472 | 15 | US-10-242-535A-56068 | Sequence 56068, A |
| 0.0 | 0.0 | 523 | 12 | US-10-085-783A-46292 | Sequence 46292, A |
| 0.0 | 0.0 | 523 | 15 | US-10-242-535A-46292 | Sequence 46292, A |
| 9.4 | 9.4 | 476 | 10 | US-09-518-995-17191 | Sequence 17191, A |
| 8.4 | 4543 | 4543 | 14 | US-10-198-846-11311 | Sequence 11311, A |
| 6.6 | 430 | 12 | US-10-085-783A-54751 | Sequence 54751, A | |

[illegible]

44

07:44:22 2004

us-09-541-462b-1.apr14.rnpb

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 TTCGCTACTTCAGAAGAGTGACTCTCGCATGGGAGTCTGTAAACATGCTTTTCAC 240
 TTCGCTACTTCAGAAGAGTGACTCTCGCATGGGAGTCTGTAAACATGCTTTTCAC 259
 TCATGTCATCTCTCGCTGCTCAAAACACGACAGAGTGTGCCATTGCGAACACAGAGAG 300
 TCATGTCATCTCTCGCTGCTCAAAACACGACAGGTGTGCCATTGCGAACACAGAGAG 319
 GGAATTCAAAAGTATGGGCACCTAG 327
 GGAATTCAAAAGTATGGGCACCTAG 346

377 Application US/10242535A
US20040013663A1
TION:
ndroGene Inc.
ew, C.G.
TION: Compositions and Methods Relating to Osteoarthritis
: 4231/2005
ATION NUMBER: US/10/242,535A
: DATE: 2002-09-12
ION NUMBER: US 10/085,783
ATE: 2002-02-28
ION NUMBER: US 60/305,340
ATE: 2001-07-13
ION NUMBER: US 60/275,017
ATE: 2001-03-12
ION NUMBER: US 60/271,955
ATE: 2001-02-28
ID NOS: 58994
ntIn version 3.2

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lan
377
100.0%; Score 327; DB 15; Length 433;
larity 100.0%; Pred. No. 2.le-106;
Conservative 0; Mismatches 0; Indels 0; Gaps 0

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GCGCACCGATGTGGATATCCCGACGCGCACCAACGCGCGCGGCGAAGAAG 60
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 GCGCACCGATGTGGATATCCCGACGCGCACCAACGCGCGCGGCGAAGAAG 79
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 TTTGAAATGAAAAAGTGGAAATGCAGTAGCCCTCTGGGCTGGGATATTGTGTTTGAAT 120
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 TTTGAAATGAAAAAGTGGAAATGCAGTAGCCCTCTGGGCTGGGATATTGTGTTTGAAT 139
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TGTGCCATCTTCGAGGAACCATATTGATCTTTGCATAGATGTCAGACTTAACAG 180
 TGTGCCATCTTCGAGGAACCATATTGATCTTTGCATAGATGTCAGACTTAACAG 199
 TCGCGTACTTCAGAAAGTGTACTGTGCGATGGGGAGTCTGPAACCATGCTTTTCAC 240
 TCGCGTACTTCAGAAAGTGTACTGTGCGATGGGGAGTCTGPAACCATGCTTTTCAC 259
 TCACCTGCATCTCTCGCTGGCTCAAAACACGACAGAGTGTGTCTCAATTGGCAACACAGAG 300
 TCACCTGCATCTCTCGCTGGCTCAAAACACGACAGAGTGTGTCTCAATTGGCAACACAGAG 319

:GAAATCCAAAAGTATGGGCACTAG 327
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 :GAAATCCAAAAGTATGGGCACTAG 346

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US-10-085-783A-35025
; Sequence 35025, Application US/10085783A
; Publication NO. US20040037841A1
; GENERAL INFORMATION:
; APPLICANT: ChondroGene Inc.
; APPLICANT: Liew, C.C.
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis
; FILE REFERENCE: 4231/2002
; CURRENT APPLICATION NUMBER: US/10/085,783A
; CURRENT FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 35025
; LENGTH: 453
; TYPE: DNA
; ORGANISM: Human
US-10-085-783A-35025

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| Query Match | 100.0% | Score | 327 | DB | 12 | Length | 453 |
| Best Local Similarity | 100.0% | Pred. | No. 2.2e-106 | | | | |
| Matches | 327 | Conservative | 0 | Mismatches | 0 | Indels | 0 |

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| Db | 24 | ATGGCGGCGAGCGATGGATGTGGATACCCGAGCGGCACCAACAGCGCGCGGGCG | |
| QY | 61 | CGCTTTGAAGTGAANAAGTGAATGCAGTAGCCCTCTGGGCTCGGGATATTGTGC | |
| Db | 84 | CGCTTTGAAGTGAANAAGTGAATGCAGTAGCCCTCTGGGCTCGGGATATTGTGC | |
| QY | 121 | AACTGTGCCATCTGCAGGAAACCAATTATGATCTTTGCATAGAAATGTCAGCTT | |
| Db | 144 | AACTGTGCCATCTGCAGGAAACCAATTATGATCTTTGCATAGAAATGTCAGCTT | |
| QY | 181 | GGGTCCGCTACTTCAGAGAGTGTACTGTCGCATGGGGAGTCTGTAACCATGCTT | |
| Db | 204 | GGGTCCGCTACTTCAGAGAGTGTACTGTCGCATGGGGAGTCTGTAACCATGCTT | |
| QY | 241 | TTCCACTGCATCTCTCGCTGGCTCAAAACAGCAGAGTGTGTCATTGGCAACAC | |
| Db | 264 | TTCCACTGCATCTCTCGCTGGCTCAAAACAGCAGAGTGTGTCATTGGCAACAC | |
| QY | 301 | TGGGAATCCAAAGATATGGGCACTAG | 327 |
| Db | 324 | TGGGAATCCAAAGATATGGGCACTAG | 350 |

RESULT 4
US-10-242-535A-35025
; Sequence 35025, Application US/10242535A
; Publication No. US20040013663A1
; GENERAL INFORMATION:
; APPLICANT: ChondroGene Inc.
; APPLICANT: Liw, C. C.
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis
; FILE REFERENCE: 4231/2005
; CURRENT APPLICATION NUMBER: US/10/242,535A
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: US 10/085,783
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994

In version 3.2

25
100.0%; Score 327; DB 15; Length 453;
arity 100.0%; Pred. No. 2.2e-106;
onservative 0; Mismatches 0; Indels 0; Gaps 0;
CGGAGGATGGATGGATACCCGAGCGGACCAACAGCGCGGGGCAAGAG 60
CGGAGGATGGATGGATACCCGAGCGGACCAACAGCGCGGGGCAAGAG 83
TTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 120
TTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 143
3TGCCATCTCGAGGAACCAATTATGGATCTTTGCATAGATGTCAAGCTAAC 180
GTGCCATCTCGAGGAACCAATTATGGATCTTTGCATAGATGTCAAGCTAAC 203
CGGATCTCGAGGAACCAATTATGGATCTTTGCATAGATGTCAAGCTAAC 240
CGGATCTCGAGGAACCAATTATGGATCTTTGCATAGATGTCAAGCTAAC 263
ACTGCATCTCTCGCTGGCTCAAAACAGACAGAGTGTGTCCATTGGACAA 300
ACTGCATCTCTCGCTGGCTCAAAACAGACAGAGTGTGTCCATTGGACAA 323
AATTCCTCAAAAGTATGGGCACTAG 327
AATTCCTCAAAAGTATGGGCACTAG 350

33
Application US/10085783A
US20040037841A1

ION:

droGene Inc.

w, C.C.

ION: Compositions and Methods Relating to Osteoarthritis

4231/2002

TION NUMBER: US/10/085,783A

DATE: 2002-02-28

ON NUMBER: US 60/305,340

TE: 2001-07-13

ON NUMBER: US 60/275,017

TE: 2001-03-12

ON NUMBER: US 60/271,955

TE: 2001-02-28

D NOS: 58994

tIn version 3.2

n
33
100.0%; Score 327; DB 12; Length 467;
arity 100.0%; Pred. No. 2.2e-106;
onservative 0; Mismatches 0; Indels 0; Gaps 0;
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CGGAGGATGGATGGATACCCGAGCGGACCAACAGCGCGGGGCAAGAG 79
TTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 120
TTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 139

Qy 121 AACTGTCCATCTGCAGGAACCAATTATGGATCTTTGCATAGATGTCAAGCTAG
Db 140 AACTGTCCATCTGCAGGAACCAATTATGGATCTTTGCATAGATGTCAAGCTAG
Qy 181 GCGTCCGCTACTCTCAGAAAGTGTACTGTGCGATGGGAGTCTCTAACCATGCTTT
Db 200 GCGTCCGCTACTCTCAGAAAGTGTACTGTGCGATGGGAGTCTCTAACCATGCTTT
Qy 241 TTCCACTGCATCTCTCGCTGGCTCAAAACAGACAGAGTGTGTCCATTGGACAAACAG
Db 260 TTCCACTGCATCTCTCGCTGGCTCAAAACAGACAGAGTGTGTCCATTGGACAAACAG
Qy 301 TGGGAATTCCTCAAAAGTATGGGCACTAG 327
Db 320 TGGGAATTCCTCAAAAGTATGGGCACTAG 346

RESULT 6

US-10-242-535A-39933
; Sequence 39933, Application US/10242535A
; Publication No. US20040013663A1
; GENERAL INFORMATION:
; APPLICANT: ChondroGene Inc.
; APPLICANT: Liew, C.C.
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis
; FILE REFERENCE: 4231/2005
; CURRENT APPLICATION NUMBER: US/10/242,535A
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: US 10/085,783
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 39933
; LENGTH: 467
; TYPE: DNA
; ORGANISM: Human
US-10-242-535A-39933

Query Match 100.0%; Score 327; DB 15; Length 467;
Best Local Similarity 100.0%; Pred. No. 2.2e-106;
Matches 327; Conservative 0; Mismatches 0; Indels 0;

Qy 1 ATGGCGGCGAGTGGATGGATACCCGAGCGGACCAACAGCGCGGGGCA
Db 20 ATGGCGGCGAGTGGATGGATACCCGAGCGGACCAACAGCGCGGGGCA
Qy 61 CGCTTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
Db 80 CGCTTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
Qy 121 AACTGTCCATCTGCAGGAACCAATTATGGATCTTTGCATAGATGTCAAGCTAG
Db 140 AACTGTCCATCTGCAGGAACCAATTATGGATCTTTGCATAGATGTCAAGCTAG
Qy 181 GCGTCCGCTACTCTCAGAAAGTGTACTGTGCGATGGGAGTCTCTAACCATGCTTT
Db 200 GCGTCCGCTACTCTCAGAAAGTGTACTGTGCGATGGGAGTCTCTAACCATGCTTT
Qy 241 TTCCACTGCATCTCTCGCTGGCTCAAAACAGACAGAGTGTGTCCATTGGACAAACAG
Db 260 TTCCACTGCATCTCTCGCTGGCTCAAAACAGACAGAGTGTGTCCATTGGACAAACAG
Qy 301 TGGGAATTCCTCAAAAGTATGGGCACTAG 327
Db 320 TGGGAATTCCTCAAAAGTATGGGCACTAG 346

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254
Application US/10085783A
US20040037841A1
TION:
ndroGene Inc.
ew, C.C.
TION: Compositions and Methods Relating to Osteoarthritis
: 4231/2002
ATION NUMBER: US/10/085,783A
DATE: 2002-02-28
ION NUMBER: US 60/305,340
ATE: 2001-07-13
ION NUMBER: US 60/275,017
ATE: 2001-03-12
ION NUMBER: US 60/271,955
ATE: 2001-02-28
ID NOS: 58994
ntIn version 3.2

an
254
100.0%; Score 327; DB 12; Length 471;
larity 100.0%; Pred. No. 2.2e-106;
Conservative 0; Mismatches 0; Indels 0; Gaps 0;

GCGCAGCGATGGATGTGGATACCCCGACGCGCACCAACAGCGCGCGGCAAGAAG 60
GCGCAGCGATGGATGTGGATACCCCGAGCGGCACCAACAGCGCGCGGCAAGAAG 76
TTTGAAGTGAAAAGTGGAAATGCAGTAGCCCTCTGGGCTCGGATATTGTGGTTGAT 120
TTTGAAGTGAAAAGTGGAAATGCAGTAGCCCTCTGGGCTCGGATATTGTGGTTGAT 136
TGTGCCATCTCAGGAACCAATTATGGATCTTTGCATAGATGTCRAGCTAACCGAG 180
TGUGCCATCTCAGGAACCAATTATGGATCTTTGCATAGATGTCRAGCTAACCGAG 196
TCCGCTACTTCAGAAAGTAGTACTGTCCGATGGGAGTCTGTAACCATGCTTTTCAC 240
TCCGCTACTTCAGAAAGTAGTACTGTCCGATGGGAGTCTGTAACCATGCTTTTCAC 256
CACTGCACTCTCGCTGGCTCAAAACACGACGAGTGTCTCCATGGACACAGAGAG 300
CACTGCACTCTCGCTGGCTCAAAACACGACGAGTGTCTCCATTTGGACACAGAGAG 316
GAATTCGCAAAAGTAGTGGCACTAG 327
GAATTCGCAAAAGTAGTGGCACTAG 343

254
Application US/10242535A
US20040013663A1
TION:
ndroGene Inc.
ew, C.C.
TION: Compositions and Methods Relating to Osteoarthritis
: 4231/2005
ATION NUMBER: US/10/242,535A
DATE: 2002-09-12
ION NUMBER: US 10/085,783
ATE: 2002-02-28
ION NUMBER: US 60/305,340
ATE: 2001-07-13
ION NUMBER: US 60/275,017
ATE: 2001-03-12
ION NUMBER: US 60/271,955
ATE: 2001-02-28

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10GGCAGCATGATGTGGATATCCCGAGCGGCACCAACAGCGCGCGCGGCAAGAAG 79
TTGAAGTGAAGAAAGTGGAAATGAGTACGAGTGGGCTCTGGGCTGGGATATTGGTTGAT 120
TTGAAGTGAAGAAAGTGGAAATGAGTACGAGTGGGCTCTGGGCTGGGATATTGGTTGAT 139
TGCCCATCTGCAGGAACACACATTATGGATCTTTGCATAGAAATGCAAGCTAACACAG 180
TGCCCATCTGCAGGAACACACATTATGGATCTTTGCATAGAAATGCAAGCTAACACAG 199
XCGCTACTTCAGAAAGTGTACTGTGCGATGGGAGTCTGTAAACCATCTTTTAC 240
XCGCTACTTCAGAAAGTGTACTGTGCGATGGGAGTCTGTAAACCATCTTTTAC 259
ACTGCATCTCTCGCTGGCTCAAAACACGACAGGTGTGCTCCATTGGACACAGAGAG 300
ACTGCATCTCTCGCTGGCTCAAAACACGACAGGTGTGCTCCATTGGACACAGAGAG 319
AATTCCAAAGTATGGGCACCTAG 327
AATTCCAAAGTATGGGCACCTAG 346

68
Application US/10242535A
US20040013663A1
ION:
droGene Inc.
w, C.C.
ION: Compositions and Methods Relating to Osteoarthritis
4231/2005
TION NUMBER: US/10/242,535A
DATE: 2002-09-12
ON NUMBER: US 10/085,783
TE: 2002-02-28
ON NUMBER: US 60/305,340
TE: 2001-07-13
ON NUMBER: US 60/275,017
TE: 2001-03-12
ON NUMBER: US 60/271,955
TE: 2001-02-28
J NOS: 58994
in version 3.2

1
feature
..(437)
ION: n is a, c, g, or t
feature
..(455)
ION: n is a, c, g, or t
18
100.0%; Score 327; DB 15; Length 472;
urity 100.0%; Pred. No. 2.2e-106;
nservative 0; Mismatches 0; Indels 0; Gaps 0;
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XGSCAGCATGATGTGGATATCCCGAGCGGCACCAACAGCGCGCGGCAAGAAG 79
TGAACTGAAGAAAGTGGAAATGCAAGTGGGCTCTGGGCTGGGATATTGGTTGAT 120
TGAACTGAAGAAAGTGGAAATGCAAGTGGGCTCTGGGCTGGGATATTGGTTGAT 139

QY 121 AACTGTGCCATCTGCAGGAACACACATTATGGATCTTTGCATAGAAATGTCAAGCTA
Db |||||
140 AACTGTGCCATCTGCAGGAACACACATTATGGATCTTTGCATAGAAATGTCAAGCTA
QY 181 GCGTCGCTACTTCAGAAAGTGTACTGTGCGATGGGAGTCTGTAAACCATGCTT
Db |||||
200 GCGTCGCTACTTCAGAAAGTGTACTGTGCGATGGGAGTCTGTAAACCATGCTT
QY 241 TTCCCATGCACTCTCGCTGGCTCAAAACACGACAGGTGTGCTCCATTGGACACAA
Db |||||
260 TTCCCATGCACTCTCGCTGGCTCAAAACACGACAGGTGTGCTCCATTGGACACAA
QY 301 TGGGAATTCCAAAGTATGGGCACCTAG 327
Db |||||
320 TGGGAATTCCAAAGTATGGGCACCTAG 346

RESULT 11
US-10-085-783A-46292
; Sequence 46292, Application US/10085783A
; Publication No. US20040037841A1
; GENERAL INFORMATION:
; APPLICANT: ChondroGene Inc.
; APPLICANT: Liew, C.C.
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis
; FILE REFERENCE: 4231/2002
; CURRENT APPLICATION NUMBER: US/10/085,783A
; CURRENT FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 46292
; LENGTH: 523
; TYPE: DNA
; ORGANISM: Human
US-10-085-783A-46292

Query Match 100.0%; Score 327; DB 12; Length 523;
Best Local Similarity 100.0%; Pred. No. 2.3e-106;
Matches 327; Conservative 0; Mismatches 0; Indels 0; G

QY 1 ATGCGCGCAGCGATGGATGTGGATATCCCGAGCGGCACCAACAGCGCGCGGCAAF
Db |||||
19 ATGCGCGCAGCGATGGATGTGGATATCCCGAGCGGCACCAACAGCGCGCGGCAAF
QY 61 CGCTTTGAAGTGAAGAAAGTGGAAATGCAAGTGGGCTCTGGGCTGGGATATTGGGT
Db |||||
79 CGCTTTGAAGTGAAGAAAGTGGAAATGCAAGTGGGCTCTGGGCTGGGATATTGGGT
QY 121 AACTGTGCCATCTGCAGGAACACACATTATGGATCTTTGCATAGAAATGTCAAGCTAA
Db |||||
139 AACTGTGCCATCTGCAGGAACACACATTATGGATCTTTGCATAGAAATGTCAAGCTAA
QY 181 GCGTCGCTACTTCAGAAAGTGTACTGTGCGATGGGAGTCTGTAAACCATGCTTT
Db |||||
199 GCGTCGCTACTTCAGAAAGTGTACTGTGCGATGGGAGTCTGTAAACCATGCTTT
QY 241 TTCCCATGCACTCTCGCTGGCTCAAAACACGACAGGTGTGCTCCATTGGACACAA
Db |||||
259 TTCCCATGCACTCTCGCTGGCTCAAAACACGACAGGTGTGCTCCATTGGACACAA
QY 301 TGGGAATTCCAAAGTATGGGCACCTAG 327
Db |||||
319 TGGGAATTCCAAAGTATGGGCACCTAG 345

RESULT 12
US-10-242-535A-46292

Application US/10242535A
US20040013663A1
TION:
ndroGene Inc.
ew, C.C.
TION: Compositions and Methods Relating to Osteoarthritis
: 4231/2005
ATION NUMBER: US/10/242,535A
DATE: 2002-09-12
ION NUMBER: US 10/085,783
ATE: 2002-02-28
ION NUMBER: US 60/305,340
ATE: 2001-07-13
ION NUMBER: US 60/275,017
ATE: 2001-03-12
ION NUMBER: US 60/271,955
ATE: 2001-02-28
ID NOS: 58994
ntIn version 3.2

100.0%; Score 327; DB 15; Length 523;
larity 100.0%; Pred. No. 2.3e-106;
Conservative 0; Mismatches 0; Indels 0; Gaps 0;

3CGGCGAGGATGATGGTATACCCGAGCGGACCAACAGCGCGCGGCAAGAAG 60
|||||
3CGGCGAGGATGATGGTATACCCGAGCGGACCAACAGCGCGCGGCAAGAAG 78
|||||
TTTGAAGTAAAAAGTGCAGTAGCCCTCTGGCCCTGGGATATTGGTTGAT 120
|||||
TTTGAAGTAAAAAGTGCAGTAGCCCTCTGGCCCTGGGATATTGGTTGAT 138
|||||
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|||||
TGTGCATCTGCAGGAACCAATTATGGATCTTTGCATAGATGTCAAGCTAACCAAG 198
|||||
TCCGCTACTTCAGAAAGTGTACTGTGCGATGGGAGTCTGTAACTGCTTTTAC 240
|||||
TCCGCTACTTCAGAAAGTGTACTGTGCGATGGGAGTCTGTAACTGCTTTTAC 258
|||||
TCTGCATCTCTCGCTGGCTCAAAACAGCACAGGTGTGCCATTGCACACAGAGAG 300
|||||
TCTGCATCTCTCGCTGGCTCAAAACAGCACAGGTGTGCCATTGCACACAGAGAG 318
|||||
TAATCCAAAGTATGGGCACTAG 327
|||||
TAATCCAAAGTATGGGCACTAG 345
|||||

1 Application US/09918995
US20030073623A1
TION:

Q, Inc.
ION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
ION: FROM VARIOUS CDNA LIBRARIES
20411-756
TION NUMBER: US/09/918,995
DATE: 2001-07-30
ON NUMBER: US/09/235,076
TE: 1999-01-20
D NOS: 38054
EQ for Windows Version 3.0

sapiens

FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(476)
; OTHER INFORMATION: n = A,T,C or G
US-09-918-995-17191

Query Match 99.4%; Score 325; DB 10; Length 476;
Best Local Similarity 100.0%; Pred. No. 1.2e-105;
Matches 325; Conservative 0; Mismatches 0; Indels 0;

QY 3 GCGGCGAGCGATGGATCTGGATACCCCGAGCGGACCAACAGCGCGCGGCAAC
Db 74 GCGGCGAGCGATGGATCTGGATACCCCGAGCGGACCAACAGCGCGCGGCAAC
QY 63 CTTTGAAGTGAAGTGAAGTGCAGTAGCCCTCTGGCCCTGGGATATTGGTT
Db 134 CTTTGAAGTGAAGTGAAGTGCAGTAGCCCTCTGGCCCTGGGATATTGGTT
QY 123 CTGTGCATCTGCAGGAACCAATTATGGATCTTTGCATAGATGTCAAGCTAAC
Db 194 CTGTGCATCTGCAGGAACCAATTATGGATCTTTGCATAGATGTCAAGCTAAC
QY 183 GTCCGCTACTTCAGAAAGTGTACTGTGCGATGGGAGTCTGTAACTGCTTTT
Db 254 GTCCGCTACTTCAGAAAGTGTACTGTGCGATGGGAGTCTGTAACTGCTTTT
QY 243 CCAGTGCATCTCTCGCTGGCTCAAAACAGCACAGGTGTGCCATTGGCAACAGA
Db 314 CCAGTGCATCTCTCGCTGGCTCAAAACAGCACAGGTGTGCCATTGGCAACAGA
QY 303 GGAATTCGAAAGTATGGGCACTAG 327
Db 374 GGAATTCGAAAGTATGGGCACTAG 398
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RESULT 14

US-10-198-846-11311/c
; Sequence 11311, Application US/10198846
; Publication No. US2003009974A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Xu, Yongyao
; APPLICANT: Wang, Youzhen
; APPLICANT: Steinmann, Kathleen
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
; TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, A
; TITLE OF INVENTION: THERAPY OF BREAST CANCER
; FILE REFERENCE: MRI-049
; CURRENT APPLICATION NUMBER: US/10/198,846
; CURRENT FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/306,220
; PRIOR FILING DATE: 2001-07-18
; NUMBER OF SEQ ID NOS: 14084
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11311
; LENGTH: 4543
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-198-846-11311

Query Match 98.4%; Score 321.8; DB 14; Length 4543;
Best Local Similarity 99.4%; Pred. No. 4.6e-104;
Matches 323; Conservative 0; Mismatches 2; Indels 0; G

QY 3 GCGGCGAGCGATGGATCTGGATACCCCGAGCGGACCAACAGCGCGCGGCAAGA
Db 1089 GCGGCGAGCGATGGATCTGGATACCCCGAGCGGACCAACAGCGCGCGGCAAGA
QY 63 CTTTGAAGTGAAGTGAAGTGCAGTAGCCCTCTGGCCCTGGGATATTGGTTG
Db 1029 CTTTGAAGTGAAGTGAAGTGCAGTAGCCCTCTGGCCCTGGGATATTGGTTG
QY 123 CTGTGCCATCTGCAGGAACCAATTATGGATCTTTGCATAGATGTCAAGCTAAC

|||||
|CCATCTGCAGGAACACATTATGGATCTTTGCATAGATGTCAAGCTAACCCAGGC 910
|CTACTTCAGAGAGTGTACTGTGCGATGGGAGTCTGTAAACCATGCTTTTCACTT 242
|CTACTTCAGAGAGTGTACTGTGCGATGGGAGTCTGTAAACCATGCTTTTCACTT 850
|GCATCTCTCGCTGGCTCAAAACACGACAGGTTGTCCATTGGACAACACAGAGTG 302
|GCATCTCTCGCTGGCTCAAAACACGACAGGTTGTCCATTGGACAACACAGAGTG 790
|TCCAAAAGTATGGCACTAG 327
|TCCAAAAGTATGGCACTAG 765

11
Application US/10085783A
J520040037841A1
ION:
IroGene Inc.
, C.C.
ION: Compositions and Methods Relating to Osteoarthritis
4231/2002
ION NUMBER: US/10/085,783A
DATE: 2002-02-28
IN NUMBER: US 60/305,340
E: 2001-07-13
IN NUMBER: US 60/275,017
E: 2001-03-12
IN NUMBER: US 60/271,955
E: 2001-02-28
NOS: 58994
In version 3.2

1
96.6%; Score 316; DB 12; Length 430;
rity 99.7%; Pred. No. 1.8e-102;
nservative 0; Mismatches 0; Indels 1; Gaps 1;
GGCAGCGATGGATGGGATACCCGAGCGGCACCAACAGCGCGCGGCAAGAAG 60
GGCAGCGATGGATGGGATACCCGAGCGGCACCAACAGCGCGCGGCAAGAAG 80
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CCGCTACTTCAGAGAGTGTACTGTGCGATGGGAGTCTGTAAACCATGCTTTTCA 260
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s

| | | | |
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| 3208 | 4 | US-09-780-016-27 | Sequence 27, Appl |
| 7.6 | 4 | US-09-621-976-15180 | Sequence 15180, A |
| 463 | 4 | US-09-313-294A-492 | Sequence 492, App |
| 7.5 | 301 | US-08-608-241-1 | Sequence 1, Appl |
| 2408 | 1 | US-08-932-182-1 | Sequence 1, Appl |
| 3.5 | 2408 | US-08-919-953-1 | Sequence 1, Appl |
| 3.5 | 2408 | US-09-132-983-1 | Sequence 1, Appl |
| 3.5 | 2408 | US-09-621-976-1817 | Sequence 1817, Ap |
| 3.2 | 534 | US-09-599-360B-27 | Sequence 27, Appl |
| 3.2 | 648 | US-09-621-976-1945 | Sequence 1945, Ap |
| 3.2 | 654 | US-09-621-976-1854 | Sequence 1854, Ap |
| 3.2 | 671 | US-09-833-381-1814 | Sequence 1814, Ap |
| 3.2 | 738 | US-09-439-039A-6887 | Sequence 6887, Ap |
| 3.9 | 708 | US-08-386-727-7 | Sequence 7, Appl |
| 1.3 | 1334 | US-08-600-452A-7 | Sequence 7, Appl |
| 3.3 | 2951 | US-09-621-976-8976 | Sequence 8976, A |
| 3.9 | 2951 | US-09-621-976-15639 | Sequence 15639, A |
| 3.9 | 505 | US-09-621-976-1783 | Sequence 1783, Ap |
| 3.9 | 714 | US-09-621-976-2813 | Sequence 2813, Ap |
| 3.3 | 832 | US-09-252-991A-4236 | Sequence 4236, Ap |
| 3.7 | 648 | US-09-252-991A-9470 | Sequence 9470, Ap |
| 3.7 | 723 | US-07-598-873-1 | Sequence 1, Appl |
| 3.7 | 1080 | US-08-073-425-1 | Sequence 1, Appl |
| 3.7 | 1080 | US-08-396-531-1 | Sequence 1, Appl |
| 3.7 | 1488 | US-09-252-991A-4168 | Sequence 4168, Ap |
| 3.7 | 2618 | US-09-857-556A-25 | Sequence 25, Appl |

| | | |
|----|------|---|
| 28 | 28.4 | 8 |
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| 30 | 28.4 | 8 |
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| 32 | 28.4 | 8 |
| 33 | 28.4 | 8 |
| 34 | 28.4 | 8 |
| 35 | 28.4 | 8 |
| 36 | 28.4 | 8 |
| 37 | 28.2 | 8 |
| 38 | 28 | 8 |
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| 40 | 27.6 | 8 |
| 41 | 27.6 | 8 |
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| 43 | 27.4 | 8 |
| 44 | 27.4 | 8 |
| 45 | 27.4 | 8 |

QY 308 TCCAAAGTATGGGCAC TAG 327

the number of results predicted by chance to have a t value greater than or equal to the score of the result being printed, based on analysis of the total score distribution.

us-09-541-462b-1.apr14.rni

80 Application US/09621976
063
TION:
as Milne Edwards, J.B.
bert, S.
ordano, J.Y.
TION: ESTs and Encoded Human Proteins.
: GENSET.054PR2
TION NUMBER: US/09/621,976
DATE: 2000-07-21
ID NOS: 19335
nt.pm

o sapiens
c_feature
TION: n=a, g, c or t
80

52.0%; Score 170; DB 4; Length 463;
larity 100.0%; Pred. No. 2.9e-51;
Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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TCTGTAAACCATGCTTTTCACTTCCACTGCATCTCTCGTGGCTCAAAACAGACAGG 277
TCTGTAAACCATGCTTTTCACTTCCACTGCATCTCTCGTGGCTCAAAACAGACAGG 220
TTCATTGGACACACAGAGTGGGAATTCAAAAGTATGGGCACATAG 327
TTCATTGGACACACAGAGTGGGAATTCAAAAGTATGGGCACATAG 270

2
plication US/09313294A
312
TION:
igudi, Raghunath V.
Laura Y.
rman, Bradley K.
TION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR
: PL-0017 US
TION NUMBER: US/09/313,294A
DATE: 1995-05-14
ID NOS: 7600
Program

mayes
c_feature
TION: Incyte ID No. 6476212 700549333H1
2

27.5%; Score 90; DB 4; Length 301;
larity 74.0%; Pred. No. 1.6e-22;
Conservative 0; Mismatches 40; Indels 0; Gaps 0;
ACAGCGCGCGGGCAAGAAGCGCTTTTGAAGTCAAAAGTGAATGCAGTAGCCCTCT 97
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Qy 98 GGGCCTGGGATATTGGTTGATACTGCGCCATCTGCGAGGAACCACTATTATGG
Db 206 GGGCATGGGATATCGTCGTCGACAACTTCGCGGCTATCTGCGCAACCATCATGG
Qy 158 GCATAGAATGTCAAGCTAACCGAGCGCTCGGCTAC 191
Db 266 GCATCGAGTCCAGGCGAACCAGCAGCGCGAC 299

RESULT 4
US-08-608-241-1
: Sequence 1, Application US/08608241
: Patent No. 5747328
: GENERAL INFORMATION:
: APPLICANT: Donohue, Timothy J
: APPLICANT: Barber, Robert D
: APPLICANT: Witthuhn, Vernon
: TITLE OF INVENTION: MICROBIAL SYSTEM FOR FORMALDEHYDE
: TITLE OF INVENTION: SENSING AND REMEDIATION
: NUMBER OF SEQUENCES: 7
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Quarles & Brady
: STREET: 1 South Pinckney Street
: CITY: Madison
: STATE: WI
: COUNTRY: US
: ZIP: 53703
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/608,241
: FILING DATE:
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: Seay, Nicholas J
: REGISTRATION NUMBER: 27,386
: REFERENCE/DOCKET NUMBER: 960296.93511
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 608-251-5000
: TELEFAX: 608-251-9166
: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 2408 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: double
: TOPOLOGY: linear
: MOLECULE TYPE: DNA (genomic)
: ORIGINAL SOURCE:
: ORGANISM: Rhodobacter sphaeroides
: STRAIN: 2.4.1
: FEATURE:
: NAME/KEY: -35 signal
: LOCATION: 262..267
: FEATURE:
: NAME/KEY: -10 signal
: LOCATION: 285..290
: FEATURE:
: NAME/KEY: CDS
: LOCATION: 346..1476
: OTHER INFORMATION: /product= "Adhi Class III Alcohol
: OTHER INFORMATION: dehydrogenase Gene"
US-08-608-241-1

Query Match 9.5%; Score 31; DB 1; Length 2408;
Best Local Similarity 53.8%; Pred. No. 0.94;
Matches 64; Conservative 0; Mismatches 55; Indels 0;
Qy 27 CCGGAGCGCGCAACACAGCGCGGGCAAGAGCGCTTTTGAAGTGAAGAAATGGTGG

GTGCGCCGCTCGCGTCGAGCGCGGCAAGCCGCTCGAGATCANGAGGTCAATCT 410
CTCTGGCCCTGGGATATGTGTTGATAACTGTGCCATCTGCCAGGAACCA 145
GCCCCAAGCGCGCGAGGTTCATGTCGAGATCAAGGCCACCGCATCTGCCACA 469

ication US/08922182
TION:
Donohue, Timothy J
Barber, Robert D
Withuhn, Vernon
TION: MICROBIAL SYSTEM FOR FORMALDEHYDE
TION: SENSING AND REMEDIATION
ENCES: 7
ADDRESS:
Charles & Brady
South Pinckney Street
son
3
ABLE FORM:
Floppy disk
IBM PC compatible
STEM: PC-DOS/MS-DOS
PatentIn Release #1.0, Version #1.30
TION DATA:
NUMBER: US/08/922,182

ION: 435
TION DATA:
NUMBER: 08/608,241
TION INFORMATION:
DCKET NUMBER: 960296.93511
TION INFORMATION:
608-251-5000
608-251-9166
SEQ ID NO: 1:
ACTERISTICS:
8 base pairs
ic acid
ic double
linear
DNA (genomic)
E:
Rhodobacter sphaeroides
1
35 signal
62...267
10 signal
85...290
DS
46..1476
TION: /product= "Adhi Class III Alcohol
TION: Dehydrogenase Gene"

9.5%; Score 31; DB 2; Length 2408;
urity 53.8%; Pred.No. 0.94;
nservative 0; Mismatches 55; Indels 0; Gaps 0;
AGCGGCACCAACAGCGCGCGCAAGAGCGCTTTGAAGTGAAGAGTGGATGC 86

Db 351 CACCCCTGCGCGCTCGCGTCGAGCGCGGCAAGCCGCTCGAGATCATGAGGTCA
QY 87 AGTAGCCCTCTGGGCTGGGATATGTGTTGATAACTGTGCCATCTGCCAGGAC
Db 411 CGAAGGCCCAAGCGCGCGAGGTTCATGTCGAGATCAAGGCCACCGCATCTGCC

RESULT 6
US-08-919-953-1
; Sequence 1, Application US/08919953
; Patent No. 5837481
; GENERAL INFORMATION:
; APPLICANT: Donohue, Timothy J
; APPLICANT: Barber, Robert D
; APPLICANT: Withuhn, Vernon
; TITLE OF INVENTION: MICROBIAL SYSTEM FOR FORMALDEHYDE
; TITLE OF INVENTION: SENSING AND REMEDIATION
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Charles & Brady
; STREET: 1 South Pinckney Street
; CITY: Madison
; STATE: WI
; COUNTRY: US
; ZIP: 53703
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/919,953
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/608,241
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Seay, Nicholas J
; REGISTRATION NUMBER: 27,386
; REFERENCE/DOCKET NUMBER: 960296.93511
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 608-251-5000
; TELEFAX: 608-251-9166
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2408 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; ORIGINAL SOURCE:
; ORGANISM: Rhodobacter sphaeroides
; STRAIN: 2.4.1
; FEATURE:
; NAME/KEY: -35 signal
; LOCATION: 262..267
; FEATURE:
; NAME/KEY: -10 signal
; LOCATION: 285..290
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 346..1476
; OTHER INFORMATION: /product= "Adhi Class III Alcohol
; OTHER INFORMATION: Dehydrogenase Gene"
US-08-919-953-1

Query Match 9.5%; Score 31; DB 2; Length 2408;
Best Local Similarity 53.8%; Pred.No. 0.94;
Matches 64; Conservative 0; Mismatches 55; Indels 0; G
QY 27 CCGAGCGCCACCAAGCGCGCGCAAGAGCGCTTTGAAGTGAAGAGTGGATGGAA

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us-09-541-462b-1.apr14.rni

CCGTGCGCGCTGCGCGTGGAGCGCGCAAGCGCTCGAGATCATGAGGTCAATCT 410
AGCCCTCTGGCCCTGGGATATTGCTTGTAATCTGTGATCTGCGATCGAGAACACA 145
AGGCCCAAGCGCGCGGAGGTCTATGCTGAGATCAAGGCCACCGGCATCTGCCACA 469

lication US/09192983A

244
IIION:
chue, Timothy
oer, Robert
thuhn, Vernon
IIION: Microbial System for Formaldehyde Sensing and
IIION: Remediation
: 960296.95505
ATION NUMBER: US/09/192,983A
DATE: 1998-11-16
ATION NUMBER: 08/919,953
DATE: 1997-08-29
ATION NUMBER: 08/608,241
DATE: 1996-02-28
ID NOS: 7
itIn Ver. 2.1

ibacter sphaeroides

signal
2)...(267)

signal
5)...(290)

5)...(1476)

arity 9.5%; Score 31; DB 3; Length 2408;

conservative 53.8%; Pred. No. 0.94;

conservative 0; Mismatches 55; Indels 0; Gaps 0;

AGCGGACCAACAGCGCGCGCGCAAGCGCTTGAGTGAATAAAGTGGATGC 86

CGTGGCGCGCTGCGCGTGGAGCGCGCAAGCGCTCGAGATCATGAGGTCAATCT 410

AGCCCTCTGGCCCTGGGATATTGCTTGTAATCTGTGATCTGCGATCGAGAACACA 145

AGGCCCAAGCGCGCGGAGGTCTATGCTGAGATCAAGGCCACCGGCATCTGCCACA 469

Application US/09621976

163

IIION:

is Milne Edwards, J.B.

ert, S.

rdano, J.Y.

ION: ESTs and Encoded Human Proteins.

: GENSET.054PR2

ATION NUMBER: US/09/621,976

DATE: 2000-07-21

ID NOS: 19335

it.pm

sapiens

; NAME/KEY: CDS
; LOCATION: 106...441
; NAME/KEY: sig_peptide
; LOCATION: 106...423
; OTHER INFORMATION: Von Heijne matrix
; OTHER INFORMATION: score 4.4000009536743
; OTHER INFORMATION: seq GILILLPHAGADG/CW
US-09-621-976-1817

Query Match 9.2%; Score 30; DB 4; Length 534;
Best Local Similarity 57.4%; Pred. No. 0.91;
Matches 54; Conservative 0; Mismatches 40; Indels 0;

QY 79 TGAATGCAGTAGCCCTCTGGCCCTGGGATATTGCTTGTAATCTGCGATCGAGAACACA 172

Db 127 TGAACGGCGTGGCCACTTGGCTCTGGGTGGCCACGATGAGAACTGTGGCATCT

QY 139 AACCACATTATGGATCTTTTGCATAGATGTCAG 172

Db 187 ATGGCATTTAACGGATGCTGCCCTGACTGCAAGG 220

RESULT 9

US-09-599-360B-27

; Sequence 27, Application US/09599360B

; Patent No. 6548633

; GENERAL INFORMATION:

; APPLICANT: Dumas Milne Edwards, J.B.

; APPLICANT: Bouquelieret, L.

; APPLICANT: Jobert, S.

; TITLE OF INVENTION: Complementary DNA's Encoding Proteins with Sig

; FILE REFERENCE: GENSET.050CP3

; CURRENT APPLICATION NUMBER: US/09/599,360B

; CURRENT FILING DATE: 2000-06-21

; PRIOR APPLICATION NUMBER: 60/113,686

; PRIOR FILING DATE: 1998-12-22

; PRIOR APPLICATION NUMBER: 60/141,032

; PRIOR FILING DATE: 1999-06-25

; PRIOR APPLICATION NUMBER: 09/469,099

; PRIOR FILING DATE: 1999-12-21

; NUMBER OF SEQ ID NOS: 123

; SOFTWARE: Patent.pm

; SEQ ID NO 27

; LENGTH: 648

; TYPE: DNA

; ORGANISM: Homo Sapiens

; FEATURE:

; NAME/KEY: CDS

; LOCATION: 187...438

; NAME/KEY: polyA_signal

; LOCATION: 612...617

; NAME/KEY: polyA_site

; LOCATION: 632...648

US-09-599-360B-27

Query Match 9.2%; Score 30; DB 4; Length 648;
Best Local Similarity 57.4%; Pred. No. 1;
Matches 54; Conservative 0; Mismatches 40; Indels 0;

QY 79 TGAATGCAGTAGCCCTCTGGCCCTGGGATATTGCTTGTAATCTGCGATCGAGAACACA 172

Db 208 TGAACGGCGTGGCCACTTGGCTCTGGGTGGCCACGATGAGAACTGTGGCATCT

QY 139 AACCACATTATGGATCTTTTGCATAGATGTCAG 172

Db 268 ATGGCATTTAACGGATGCTGCCCTGACTGCAAGG 301

RESULT 10

US-09-621-976-1945

; Sequence 1945, Application US/09621976

; Patent No. 6639063

; GENERAL INFORMATION:

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us-09-541-462b-1.apr14.rni

3 Milne Edwards, J.B.
rt, S.
dano, J.Y.
ION: ESTs and Encoded Human Proteins.
GENSET.054PR2
TION NUMBER: US/09/621,976
DATE: 2000-07-21
NOS: 19335
pm
sapiens
530
peptide
521
ION: Von Heijne matrix
ION: score 3.79999995231628
ION: seq RLLPHAGADGCWG/OR

9.2%; Score 30; DB 4; Length 654;
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ATTAAACGATGCTGCCCTGACTGCAAG 309

plication US/09621976
3
ON:
Milne Edwards, J.B.
rt, S.
dano, J.Y.
ION: ESTs and Encoded Human Proteins.
GENSET.054PR2
TION NUMBER: US/09/621,976
ATE: 2000-07-21
NOS: 19335
pm
sapiens
547
eptide
424
ION: Von Heijne matrix
ION: score 4.1999980926514
ION: seq ILKWLHATAGAA/LP

9.2%; Score 30; DB 4; Length 671;
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nservative 0; Mismatches 45; Indels 0; Gaps 0;
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Db 289 ATGGCATTTAACGAGTGTGCCCTGACTGCAAGGTGCCCGG 330
RESULT 12
US-09-833-381-1814/c
; Sequence 1814, Application US/09833381
; Patent No. 6672186
; GENERAL INFORMATION:
; APPLICANT: Robison, Keith E.
; TITLE OF INVENTION: No. 6672186el Nucleic Acid and Protein Homologs
; FILE REFERENCE: 5800-119
; CURRENT APPLICATION NUMBER: US/09/833,381
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 09/516,448
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 2050
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1814
; LENGTH: 738
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(738)
; OTHER INFORMATION: n = A,T,C or G
US-09-833-381-1814
Query Match 9.2%; Score 30; DB 4; Length 738;
Best Local Similarity 57.4%; Pred. No. 1.1;
Matches 54; Conservative 0; Mismatches 40; Indels 0; G
QY 79 TGAATGCACTAGTCCCTCTGGGCTGGGATATTGTGGTTGATAACTGTGCCATCTG
Db 539 TGAACGGCGTGGCCACTTGGCTCTGGGTGGCCCAACGATGAGAACTGTGGCACTG
QY 139 ACCACATTATGATCTTTGCATAGATGTCAG 172
Db 479 ATGGCATTTAACGAGTGTGCCCTGACTGCAAGG 446

RESULT 13
US-09-489-039A-6887/c
; Sequence 6887, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 6887
; LENGTH: 708
; TYPE: DNA
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-6887
Query Match 8.9%; Score 29.2; DB 4; Length 708;
Best Local Similarity 56.1%; Pred. No. 2.1;
Matches 55; Conservative 0; Mismatches 43; Indels 0; G
QY 22 GATACCCCGAGCGGCACCAACAGCGCGCGGCAAGAGCGCTTTGAAGTGAAGAAC
Db 252 GAAGTGGCCATAGGCGGCAAGCAACGCGGAGGCAAGGCTCTTTGCTTTAAAGC
QY 82 AATGCACTAGCCCTCTGGGCTGGGATATTGTGGTTGA 119
Db 192 ATAAACGACCCCTTGGCAGCGCATATTCTTGATCA 155

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us-09-541-462b-1.apr14.rni

45/c
Application US/09543681A
709
TION:
Y BRETON
TION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
TION: DIAGNOSTICS AND THERAPEUTICS
: 2709.1002-001
ATION NUMBER: US/09/543,681A
DATE: 2000-04-05
ION NUMBER: US 60/128,706
ATE: 1999-04-09
ID NOS: 8344

teus mirabilis
45

8.9%; Score 29.2; DB 4; Length 1314;
larity 51.5%; Pred.No.3;
Conservative 0; Mismatches 63; Indels 0; Gaps 0;
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GGCCTGGGATATTGCTGGTGATAACTGTGCCATCTGCAGGAACCAATTATGATC 154
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3CATAGA 164
TTATAGA 170

lication US/08386727

547
ATION:
ROSEMAN, SAUL
BASSLER, BONNIE
EVHANI, NEMAT O.
HITLARU, EDITH
OWE, CHRIS
U, CHARLES
ENTION: BACTERIAL CATABOLISM OF CHITIN
UENCES: 8
E ADDRESS:
CUSHMAN, DARBY & CUSHMAN
00 NEW YORK AVENUE, N.W.
INGTON
ISA
ABLE FORM:
Floppy disk
IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
PatentIn Release #1.0, Version #1.25
ICATION DATA:
V NUMBER: US/08/386,727
E:
TION: 435
AT INFORMATION:
S, ANN S.
ON NUMBER: 36,830
CKET NUMBER: 4130/206916
ATION INFORMATION:
202-861-3000

TELEFAX: 202-822-0944
TELEX: 6714627 CUSH
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 2951 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-386-727-7
Query Match 8.9%; Score 29.2; DB 1; Length 2951;
Best Local Similarity 62.2%; Pred.No.4.7; Mismatches 0; Indels 0;
Matches 46; Conservative 0; Mismatches 28; Indels 0;
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Db 151 GGCGGCGAGCGAGCGGAGGTAGAACAGAGCCCCCGACCAAGCAATGCCAGCAGG
QY 63 CTTTGAAGTGAATA 76
Db 91 TTTTGGACTGAACA 78
Search completed: April 14, 2004, 07:50:19
Job time : 63 secs

GenCore version 5.1.6
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(without alignments)
242.418 Million cell updates/sec

-09-541-462B-2

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SUM62

pop 10.0 , Gapext 0.5

414 seqs, 51625971 residues

s satisfying chosen parameters: 389414

hch: 0

hch: 2000000000

Minimum Match 0%

Maximum Match 100%

Printing first 45 summaries

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/cgn2_6/ptodata/2/iaa/6A COMB.pep.*
/cgn2_6/ptodata/2/iaa/6B COMB.pep.*
/cgn2_6/ptodata/2/iaa/PCTUS COMB.pep.*
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than or equal to the score of the result being printed,
by analysis of the total score distribution.

SUMMARIES

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| 1.8 | 84 | 4 | US-09-599-360B-77 | Sequence 77, Appl |
| 1.0 | 112 | 4 | US-09-621-976-5677 | Sequence 5677, Ap |
| 1.0 | 112 | 4 | US-09-621-976-5805 | Sequence 5805, Ap |
| 1.1 | 94 | 4 | US-09-621-976-5714 | Sequence 5714, Ap |
| 1.8 | 664 | 3 | US-09-268-140-2 | Sequence 2, Appli |
| 1.5 | 104 | 4 | US-09-325-332A-49 | Sequence 49, Appl |
| 1.5 | 337 | 4 | US-09-828-303-18 | Sequence 18, Appl |
| 1.0 | 180 | 2 | US-08-786-606-3 | Sequence 3, Appli |
| 1.0 | 180 | 2 | US-08-933-750C-48 | Sequence 48, Appl |
| 1.0 | 180 | 3 | US-09-234-613-48 | Sequence 48, Appl |
| 1.0 | 284 | 2 | US-08-786-606-9 | Sequence 9, Appli |
| 1.8 | 50 | 4 | US-09-052-089A-15 | Sequence 15, Appl |
| 1.8 | 359 | 4 | US-09-663-600A-106 | Sequence 106, App |
| 1.8 | 381 | 2 | US-08-867-057-1 | Sequence 1, Appli |
| 1.8 | 381 | 2 | US-08-867-057-3 | Sequence 3, Appli |
| 1.8 | 381 | 2 | US-09-128-369-1 | Sequence 1, Appli |
| 1.8 | 381 | 2 | US-09-128-369-3 | Sequence 3, Appli |
| 1.8 | 381 | 4 | US-09-663-600A-200 | Sequence 200, App |
| 1.8 | 410 | 1 | US-07-945-283-4 | Sequence 4, Appli |
| 1.4 | 317 | 4 | US-09-921-099A-8 | Sequence 8, Appli |
| 1.3 | 1302 | 4 | US-09-423-890-2 | Sequence 2, Appli |
| 1.3 | 1493 | 4 | US-09-423-890-8 | Sequence 8, Appli |
| 1.3 | 1593 | 4 | US-08-628-829-4 | Sequence 4, Appli |
| 1.3 | 305 | 4 | US-09-599-360B-114 | Sequence 114, App |
| 1.1 | 67 | 1 | US-07-945-283-5 | Sequence 5, Appli |
| 1.1 | 149 | 4 | US-09-690-454-205 | Sequence 205, App |
| 1.1 | 166 | 4 | US-09-690-454-204 | Sequence 204, App |

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| 28 | 74.5 | 12.1 | 826 | 4 | US-09-894-998A-47 | Sequence 4 |
| 29 | 73 | 11.9 | 551 | 3 | US-08-699-103B-25 | Sequence 2 |
| 30 | 73 | 11.9 | 551 | 4 | US-09-229-059-25 | Sequence 2 |
| 31 | 73 | 11.9 | 551 | 4 | US-09-628-133-25 | Sequence 2 |
| 32 | 72.5 | 11.8 | 66 | 4 | US-09-205-258-1030 | Sequence 1 |
| 33 | 72.5 | 11.8 | 69 | 1 | US-07-945-283-6 | Sequence 6 |
| 34 | 72.5 | 11.8 | 84 | 4 | US-09-205-258-1032 | Sequence 1 |
| 35 | 72.5 | 11.8 | 167 | 4 | US-09-205-258-1026 | Sequence 1 |
| 36 | 72.5 | 11.8 | 276 | 2 | US-08-786-606-5 | Sequence 5 |
| 37 | 72.5 | 11.8 | 276 | 4 | US-09-205-258-1027 | Sequence 1 |
| 38 | 72.5 | 11.8 | 341 | 4 | US-09-205-258-1034 | Sequence 1 |
| 39 | 71 | 11.5 | 40 | 3 | US-09-046-894-44 | Sequence 4 |
| 40 | 71 | 11.5 | 199 | 4 | US-09-325-932A-46 | Sequence 4 |
| 41 | 70.5 | 11.4 | 46 | 2 | US-08-691-814B-17 | Sequence 1 |
| 42 | 67.5 | 11.0 | 49 | 3 | US-09-230-637-60 | Sequence 6 |
| 43 | 67 | 10.9 | 395 | 2 | US-08-841-349-9 | Sequence 9 |
| 44 | 67 | 10.9 | 395 | 4 | US-09-431-184A-9 | Sequence 9 |
| 45 | 66 | 10.7 | 67 | 1 | US-07-945-283-7 | Sequence 7 |

ALIGNMENTS

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; Sequence 77, Application US/09599360B
; Patent No. 6548633
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Bougueret, L.
; APPLICANT: Jobert, S.
; TITLE OF INVENTION: Complementary DNA's Encoding Proteins with Sign
; FILE REFERENCE: GENSET.050CP3
; CURRENT APPLICATION NUMBER: US/09/599,360B
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 60/113,686
; PRIOR FILING DATE: 1998-12-22
; PRIOR APPLICATION NUMBER: 60/141,032
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: 09/469,099
; PRIOR FILING DATE: 1999-12-21
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patent.pm
; SEQ ID NO 77
; LENGTH: 84
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-09-599-360B-77

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Best Local Similarity 37.5%; Pred. No. 1.1e-15;
Matches 33; Conservative 17; Mismatches 30; Indels 8; G
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DB 2 KVAKICNGVATLWLVANDENCICIRMAFNGCCPDCK-----VPGDDCLPLVWGQCS!
QY 81 FHCISWLKTRQV---CPIDNREWEFOK 105
DB 57 MHCILKWLHAQQVQHCPCRCQEWKFE 84

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; Sequence 5677, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976

DATE: 2000-07-21
ID NOS: 19335
at.pm

> sapiens

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30.0%; Score 185; DB 4; Length 112;

larity 38.0%; Pred. No. 5.1e-13; Indels 8; Gaps 2;

Conservative 13; Mismatches 28; Indels 8; Gaps 2;

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5 Application US/09621976

063

as Milne Edwards, J.B.

bert, S. J.Y.

ordano, J.Y.

ION: ESTs and Encoded Human Proteins.

: GENSET.054PR2

ATION NUMBER: US/09/621,976

DATE: 2000-07-21

ID NOS: 19335

at.pm

> sapiens

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larity 38.0%; Pred. No. 5.1e-13; Indels 8; Gaps 2;

Conservative 13; Mismatches 28; Indels 8; Gaps 2;

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ISRWLKTROV---CPL 96

ILKWLHAQQVQHQCPM 75

4 Application US/09621976

063

as Milne Edwards, J.B.

bert, S. J.Y.

ordano, J.Y.

ION: ESTs and Encoded Human Proteins.

: GENSET.054PR2

ATION NUMBER: US/09/621,976

DATE: 2000-07-21

; NUMBER OF SEQ ID NOS: 19335

; SOFTWARE: Patent.pm

; SEQ ID NO 5714

; LENGTH: 94

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: SIGNAL

; LOCATION: -53...-1

; NAME/KEY: UNSURE

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; OTHER INFORMATION: Xaa = Glu,Gln

; US-09-621-976-5714

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Best Local Similarity 36.6%; Pred. No. 0.00022;

Matches 15; Conservative 8; Mismatches 13; Indels 5;

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Db 10 HLTDAAPDCK-----VPGDDCPLVMGQCSCHFHMLKWL 45

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; Sequence 2, Application US/09268140

; Patent No. 6268176

; GENERAL INFORMATION:

; APPLICANT: Gemmill, Robert M.

; APPLICANT: Drabkin, Harry A.

; TITLE OF INVENTION: TRC8, A GENE RELATED TO THE HEDGEHOG RECEPTOR

; FILE REFERENCE: 93445-00004

; CURRENT APPLICATION NUMBER: US/09/268,140

; CURRENT FILING DATE: 2000-03-12

; PRIOR APPLICATION NUMBER: US 60/077,723

; PRIOR FILING DATE: 1998-03-12

; NUMBER OF SEQ ID NOS: 46

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 2

; LENGTH: 664

; TYPE: PRT

; ORGANISM: Homo sapiens

; US-09-268-140-2

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QY 73 GVCNHAFFHCISRWLKTRQVCP 96

Db 562 -PCNHYFHALCLRWLYIQTDCPM 584

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; Sequence 49, Application US/09325932A

; Patent No. 6451604

; GENERAL INFORMATION:

; APPLICANT: Flinn, Barry

; APPLICANT: Lasham, Annette

; TITLE OF INVENTION: Compositions affecting programmed cell

; FILE OF INVENTION: death and their use in the modification of fo

; CURRENT APPLICATION NUMBER: US/09/325,932A

; CURRENT FILING DATE: 1999-06-04

; NUMBER OF SEQ ID NOS: 206

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 49

; LENGTH: 104

NUMBER: US/08/786

TELECOMMUNICATIONS
TELEPHONE: 415-8

REFERENCE/DOCKET NUMBER: PF-0356 US

ATTENTION DATA:
NUMBER: IIS/08/786 606

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

n search, using sw model

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09-541-462B-2

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ISUM62

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2010 seqs, 265213723 residues

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string first 45 summaries

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than or equal to the score of the result being printed,
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SUMMARIES

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| 1.0 | 108 | 9 | US-09-826-312-6 | Sequence 6, Appli | |
| 1.0 | 108 | 14 | US-10-108-767-6 | Sequence 6, Appli | |
| 1.0 | 108 | 14 | US-10-152-156-6 | Sequence 6, Appli | |
| 1.2 | 118 | 12 | US-10-424-599-148916 | Sequence 148916, | |
| 1.2 | 152 | 12 | US-10-424-599-221431 | Sequence 221431, | |
| 1.3 | 106 | 12 | US-10-424-599-148915 | Sequence 148915, | |
| 1.8 | 75 | 12 | US-10-424-599-230014 | Sequence 230014, | |
| 1.4 | 118 | 9 | US-09-764-864-826 | Sequence 826, App | |
| 1.4 | 131 | 9 | US-09-764-864-1285 | Sequence 1285, Ap | |
| 1.6 | 64 | 12 | US-10-424-599-238320 | Sequence 238320, | |
| 1.6 | 113 | 9 | US-09-826-312-8 | Sequence 8, Appli | |
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| 1.6 | 113 | 14 | US-10-152-156-8 | Sequence 8, Appli | |
| 1.8 | 68 | 12 | US-10-424-599-242288 | Sequence 242288, | |
| 1.0 | 40 | 12 | US-10-424-599-264079 | Sequence 264079, | |

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| 18 | 213 | 34.6 | 88 | 14 | US-10-102-806-620 | Sequence |
| 19 | 213 | 34.6 | 91 | 15 | US-10-264-049-2337 | Sequence |
| 20 | 213 | 34.6 | 105 | 9 | US-09-764-864-1274 | Sequence 1 |
| 21 | 210 | 34.1 | 124 | 9 | US-09-764-864-1284 | Sequence 1 |
| 22 | 208 | 33.8 | 84 | 12 | US-10-221-625-94 | Sequence |
| 23 | 208 | 33.8 | 100 | 12 | US-10-424-599-253860 | Sequence |
| 24 | 202 | 32.8 | 84 | 9 | US-09-826-312-5 | Sequence 5 |
| 25 | 202 | 32.8 | 84 | 14 | US-10-108-767-5 | Sequence |
| 26 | 202 | 32.8 | 84 | 14 | US-10-152-156-5 | Sequence |
| 27 | 196 | 31.8 | 85 | 15 | US-10-264-049-2926 | Sequence |
| 28 | 185.5 | 30.1 | 121 | 9 | US-09-764-864-839 | Sequence 8 |
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| 32 | 172 | 27.9 | 114 | 15 | US-10-320-797-3003 | Sequence |
| 33 | 138 | 22.4 | 34 | 12 | US-10-424-599-254645 | Sequence |
| 34 | 134.5 | 21.8 | 133 | 14 | US-10-032-585-7259 | Sequence |
| 35 | 102 | 16.6 | 144 | 12 | US-10-424-599-279773 | Sequence |
| 36 | 100.5 | 16.3 | 205 | 12 | US-10-424-599-213911 | Sequence |
| 37 | 98 | 15.9 | 234 | 12 | US-10-424-599-266133 | Sequence |
| 38 | 97.5 | 15.8 | 128 | 12 | US-10-424-599-202979 | Sequence |
| 39 | 97.5 | 15.8 | 195 | 12 | US-10-425-114-36967 | Sequence |
| 40 | 97.5 | 15.8 | 209 | 12 | US-10-425-114-41999 | Sequence |
| 41 | 97.5 | 15.8 | 209 | 12 | US-10-425-114-63173 | Sequence |
| 42 | 96.5 | 15.7 | 345 | 12 | US-10-425-114-71489 | Sequence |
| 43 | 96.5 | 15.7 | 356 | 12 | US-10-424-599-179820 | Sequence |
| 44 | 95.5 | 15.5 | 100 | 12 | US-10-425-114-40203 | Sequence |
| 45 | 95.5 | 15.5 | 202 | 12 | US-10-424-599-254121 | Sequence |

ALIGNMENTS

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; Sequence 6, Application US/09826312
; Patent No. US20020042083A1
; GENERAL INFORMATION:
; APPLICANT: Issakani, Sarkiz D.
; APPLICANT: Huang, Jianing
; APPLICANT: Sheung, Julie
; APPLICANT: Pray, Todd R.
; TITLE OF INVENTION: UBIQUITIN LIGASE ASSAY
; FILE REFERENCE: A-68613-1/RMS/UJD
; CURRENT APPLICATION NUMBER: US/09/826,312
; CURRENT FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: US 09/542,497
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 6
; LENGTH: 108
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-826-312-6

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Best Local Similarity 100.0%; Pred. No. 8.9e-61; Indels 0; G
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US-10-108-767-6

07:44:23 2004

us-09-541-462b-2.apr14.rapb

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US20030104474A1
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akani, Sarkiz D.
ang, Jianing
eung, Julie
ay, Todd R.
TION: ASSAYS FOR IDENTIFYING UBIQUITIN AGENTS AND FOR IDENTIFYING AGENT
TION: MODIFY THE ACTIVITY OF UBIQUITIN AGENTS
: A-68613-5/RMS/DCF
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DATE: 2002-09-26
ION NUMBER: US 09/542,497
ATE: 2000-04-03
ION NUMBER: US 09/826,312
ATE: 2001-04-03
ION NUMBER: US 10/091,139
ATE: 2002-03-04
ID NOS: 27
ntIn version 3.1

o sapiens

100.0%; Score 616; DB 14; Length 108;
larity 100.0%; Pred. No. 8.9e-61;
Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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US20030108947A1

TION:
akani, Sarkiz D.
ang, Jianing
eung, Julie
ay, Todd R.
TION: ASSAYS FOR IDENTIFYING UBIQUITIN AGENTS AND FOR IDENTIFYING AGENT
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: A-68613-6/RMS/DCF
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ATE: 2002-03-04
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ATE: 2002-03-26
ION NUMBER: US 10/108,767
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Db 61 ASATSECTVAVGVCNHAHFHFCISRWLKTRQVCPLDNREWEFOKYGH 108
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RESULT 4

US-10-424-599-148916
; Sequence 148916, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 148916
; LENGTH: 118
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_105494C.1.pap
US-10-424-599-148916

Query Match 84.2%; Score 518.5; DB 12; Length 118;
Best Local Similarity 80.3%; Pred. No. 6.9e-50;
Matches 94; Conservative 5; Mismatches 7; Indels 11;

QY 3 AMDVDT---PSG-TNSGAG-----KRFVKKNAVALWAWDIVVNDCAICR
|||
Db 2 ATLDSDVTVPAGEASSAGPSSTKKRFEIKKNVAVSLWAWDIVVNDCAICR
|||
QY 52 LCIECOANQASATSECTVAVGVCNHAHFHFCISRWLKTRQVCPLDNREWEFOKY
|||
Db 62 LCIECOANQASATSECTVAVGVCNHAHFHFCISRWLKTRQVCPLDNSEWEFOKY
|||

RESULT 5

US-10-424-599-221431
; Sequence 221431, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 221431
; LENGTH: 152
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_41982C.1.pap
US-10-424-599-221431

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82.2%; Score 506.5; DB 12; Length 152;
rity 80.0%; Pred.No.1.9e-48;
nservative 4; Mismatches 10; Indels 9; Gaps 2;

DTP-----SGTNSGAG-----KKRFEVKKNNAVALWAWDIVVDNCAICRNHIMDLQ 53
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
DVPWPAGEFSSSSAGPSSKPKRFEIKKNNAVALWAWDIVVDNCAICRNHIMDLQ 97
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
NQASATSEECTVAMGVGCNHAFPHFCISRWLKTROVCPLDNRWEWFQKYGH 108
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
NQASATSEECTVAMGVGCNHAFPHFSISRWLKTROVCPLDNSEWEFQKYGH 152
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

5 Application US/10424599
S20040031072A1
ON:
sa Thomas J
lic David K
Yihua
Yongwei
ON: Soy Nucleic Acid Molecules and Other Molecules Associated With
ON: Plants and Uses Thereof for Plant Improvement
38-21(53223)B
ION NUMBER: US/10/424,599
ATE: 2003-04-28
NOS: 285684

ne max
e
(106)
ON: unsure at all Xaa locations

ON: Clone ID: PAT_MRT3847_105493C.1.pep
5
68.3%; Score 420.5; DB 12; Length 106;
rity 69.2%; Pred.No.4.9e-39;
nservative 5; Mismatches 8; Indels 23; Gaps 4;

DT---PG-TNSGAG-----KKRFEVKKNNAVALWAWDIVVDNCAICRNHIMD 51
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
DVTVPAGEASSSAGPSSSTTKPKRFEIKKNNAVSLWAWDIVVDNCAICRNHIMD 61
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QANQASATSEECTVAMGVGCNHAFPHFCISRWLKTROVCPLDNRWEWFQKYGH 108
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QANQASATSEECTVAW-----XRWLKTROVCPLDNSEWEFQKYGH 106
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

4 Application US/10424599
S20040031072A1
ON:
sa Thomas J
lic David K
Yihua
Yongwei
ON: Soy Nucleic Acid Molecules and Other Molecules Associated With
ON: Plants and Uses Thereof for Plant Improvement
38-21(53223)B
ION NUMBER: US/10/424,599
ATE: 2003-04-28
NOS: 285684

ne max
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us-09-541-462b-2.apr14.rapb

arity 50.5%; Pred. No. 1.2e-24;
Conservative 14; Mismatches 30; Indels 4; Gaps 2;
ISGAGKRRFEVKKNAVALWMDIVVDNCAICRNHIMDLICBQANQASATSECTV 70
SG-GDKMFLSKKNVAVMSWDVECDTCAICRVQVMDACLRCQAE---KQEDCVV 93
/CNHAFHFCISRWLKTRQVCPDLNREWEFQKYG 107
/CNHSHFNCMSLWVKQNNRCPLCQDQWVVRIG 130
Application US/10424599
US20040031072A1
TION:
Rosa Thomas J
Gallic David K
Yu Yihua
Yongwei
TION: Soy Nucleic Acid Molecules and Other Molecules Associated with
TION: Plants and Uses Thereof for Plant Improvement
TION NUMBER: US/10/424,599
DATE: 2003-04-28
ID NOS: 285684
line max
TION: Clone ID: PAT_MRT3847_57228C.1.pap
320
46.6%; Score 287; DB 12; Length 64;
arity 77.8%; Pred. No. 2.1e-24;
Conservative 3; Mismatches 11; Indels 0; Gaps 0;
IMDLICBQANQASATSECTVAVGVCNHAHFCISRWLKTRQVCPDLNREWEFQ 104
LMGFLGQANOGRAPNEECFVAVGVCNHAHFCISRWLKTRQVCPDLNREWEFQ 60
107
63
lication US/09826312
20042083A1
TION:
akani, Sarkiz D.
ang, Jianing
ung, Julie
ay, Todd R.
TION: UBIQUITIN LIGASE ASSAY
: A-68613-1/RMS/JJD
ATION NUMBER: US/09/826,312
DATE: 2001-04-03
TION NUMBER: US 09/542,497
ATE: 2000-04-03
ID NOS: 17
ntin version 3.1
o sapiens
46.6%; Score 287; DB 9; Length 113;
arity 49.5%; Pred. No. 3.7e-24;

Matches 48; Conservative 14; Mismatches 31; Indels 4;
QY 11 SGTNSGAKRRFEVKKNAVALWMDIVVDNCAICRNHIMDLICBQANQASATS!
Db 20 SGSTSG-GDKMFLSKKNVAVMSWDVECDTCAICRVQVMDACLRCQAE---KQ!
QY 71 AWGVCNHAHFCISRWLKTRQVCPDLNREWEFQKYG 107
Db 76 VWGECNHSFHNCMSLWVKQNNRCPLCQDQWVVRIG 112
RESULT 12
US-10-108-767-8
; Sequence 8, Application US/10108767
; Publication No. US20030104474A1
; GENERAL INFORMATION:
; APPLICANT: Issakani, Sarkiz D.
; APPLICANT: Huang, Jianing
; APPLICANT: Sheung, Julie
; APPLICANT: Pray, Todd R.
; TITLE OF INVENTION: ASSAYS FOR IDENTIFYING UBIQUITIN AGENTS AND FO
; FILE REFERENCE: A-68613-5/RMS/DCF
; CURRENT APPLICATION NUMBER: US/10/108,767
; PRIOR FILING DATE: 2002-09-26
; PRIOR APPLICATION NUMBER: US 09/542,497
; PRIOR FILING DATE: 2000-04-03
; PRIOR APPLICATION NUMBER: US 09/826,312
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: US 10/091,139
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8
; LENGTH: 113
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-108-767-8
Query Match 46.6%; Score 287; DB 14; Length 113;
Best Local Similarity 49.5%; Pred. No. 3.7e-24;
Matches 48; Conservative 14; Mismatches 31; Indels 4;
QY 11 SGTNSGAKRRFEVKKNAVALWMDIVVDNCAICRNHIMDLICBQANQASATS!
Db 20 SGSTSG-GDKMFLSKKNVAVMSWDVECDTCAICRVQVMDACLRCQAE---KQ!
QY 71 AWGVCNHAHFCISRWLKTRQVCPDLNREWEFQKYG 107
Db 76 VWGECNHSFHNCMSLWVKQNNRCPLCQDQWVVRIG 112
RESULT 13
US-10-152-156-8
; Sequence 8, Application US/10152156
; Publication No. US20030108947A1
; GENERAL INFORMATION:
; APPLICANT: Issakani, Sarkiz D.
; APPLICANT: Huang, Jianing
; APPLICANT: Sheung, Julie
; APPLICANT: Pray, Todd R.
; TITLE OF INVENTION: ASSAYS FOR IDENTIFYING UBIQUITIN AGENTS AND FO
; FILE REFERENCE: A-68613-6/RMS/DCF
; CURRENT APPLICATION NUMBER: US/10/152,156
; CURRENT FILING DATE: 2002-05-20
; PRIOR APPLICATION NUMBER: US 09/542,497
; PRIOR FILING DATE: 2000-04-03
; PRIOR APPLICATION NUMBER: US 09/826,312
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: US 10/091,174
; PRIOR FILING DATE: 2002-03-04
; PRIOR APPLICATION NUMBER: US 10/091,139

07:44:24 2004

us-09-541-462b-2.apr14.rni

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AlaGlyLysArgPheGluValLysTrpAsnAlaValAlaLeuTrpAlaTrp 35
|||||
|CATATAAAAAA-----AAAAATGGAATGCACTAGCCCTCTGGGCTGG 2802
|||||
|LeuValAspAsnCysAlaIleCysArgAsnHisIleMetAspLeuCysIleGlu 55
|||||
|ATGTGTTTATTAACCTGTGCATCTGCAGAACACACATTATGGATCTTTGCATAGAA 2862
|||||
|AlaAsnGlnAlaSerAlaThrSerGluGluCysThrValAlaTrpGlyValCys 75
|||||
|TAAGCTAACCGGGTCCGCTACTTTCAGAGAGTGACTGTCCATGGGGAGTCTGT 2922
|||||
|iAlaPheHisPheHisCysIleSerArgTrpLeuLysThrArgGlnValCysPro 95
|||||
|ATGCTTTTCACTTCACTGCTCTCTCGCTGCTCAAAACACGACAGGTGTGTCCA 2982
|||||
|AspAsnArgGluTrpGluPheGlnLysTrpGlyHis 108
|ACACACAGAGTGGGAATTCCTCAAAAGTATGGGCAC 3021
|||||
30 Application US/09621976
063
TION:
as Milne Edwards, J.B.
cert, S.
ordano, J.Y.
TION: ESTs and Encoded Human Proteins.
: GENSET.054PR2
ATTION NUMBER: US/09/621,976
DATE: 2000-07-21
ID NOS: 19335
nt.pm

c sapiens
c_feature
TION: n=a, g, c or t
80
9.46e-41 Length: 463
394.00 Matches: 76
73.08% Conservativeness: 0
73.08% Mismatches: 2
73.96% Indels: 27
4 Gaps: 1
(1-108) x US-09-621-976-15180 (1-463)

AspValAspThrProSerGlyThrAsnSerGlyAlaGlyLysLysArgPheGluVal 24
|||||
|GATGTGATATACCCGAGCGGCACCAACACAGCGCGCGNGCAAGAGCGTTTGAAGT 94
|||||
|LysTrpAsnAlaValAlaLeuTrpAlaTrpAspIleValValAspAsnCysAlaIle 44
|||||
|AAGGC----- 102
|||||
|ArgAsnHisIleMetAspLeuCysIleGluCysGlnAlaAsnGlnAlaSerAlaThr 64
|-----ATAGAATGTCAAGCTAACCAAGCGTCCGCTACT 135
|||||
|GluGluCysThrValAlaTrpGlyValCysAsnHisAlaPheHisPheHisCysIle 84
|GAAGAGTGTACTGTGCGATGGGAGTCTGTAAACCATGCTTTTCACTTCCACTGCATC 195
|||||
|ArgTrpLeuLysThrAtcGlnValCysProLeuAspAsnArgGluTrpGluPheGln 104
|||||
```

```

Db 196 TCTCGCTGGCTCAAAACACGACGAGGTGTGCTCCATTGGACACAGAGATGGGAAT
QY 105 LysTrpGlyHis 108
|||||
Db 256 AAGTATGGGCAC 267
|||||
RESULT 3
US-09-313-294A-492
; Sequence 492, Application US/09313294A
; Patent No. 6476212
; GENERAL INFORMATION:
; APPLICANT: Ialgudi, Raghunath V.
; APPLICANT: Ico, Laura Y.
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM
; FILE REFERENCE: PL-0017 US
; CURRENT APPLICATION NUMBER: US/09/313,294A
; CURRENT FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 7600
; SOFTWARE: PERL Program
; SEQ ID NO 492
; LENGTH: 301
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6476212 700549333H1
US-09-313-294A-492
Alignment Scores:
Pred. No.: 1.86e-24 Length: 301
Score: 262.50 Matches: 51
Percent Similarity: 71.43% Conservativeness: 4
Best Local Similarity: 66.23% Mismatches: 7
Query Match: 42.61% Indels: 15
DB: Gaps: 2
US-09-541-462B-2 (1-108) x US-09-313-294A-492 (1-301)
QY 3 AlaAlaMetAspValAsp-----ThrProSerGlyThr
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Db 70 TCGGCCATGGAGACCGACATCAACGCGCGCGCGCCGCCCGCCAGCTGGCGAGG
|||||
QY 16 GlyAlaGly-----LysLysArgPheGluValLysI
|||||
Db 130 TCTGGCGCGCGTCCGCTCTCTCCCAAGCCCAACAGCGCTTCGAGATCAAGA
|||||
QY 28 AsnAlaValAlaLeuTrpAlaTrpAspIleValValAspAsnCysAlaIleCysA
|||||
Db 190 AACGCGTCCGCTCTGGGATGGGATATGCTGCTCGACAACTGCGTATCTGCC
|||||
QY 48 HisIleMetAspLeuCysIleGluCysGlnAlaAsnGlnAlaSerAlaThr 64
|||||
Db 250 CACATCATGATCTATGATCGATGCGAGTCCAGGCGAACCAAGCCAGCGCGACC 300
|||||
RESULT 4
US-09-599-360B-27
; Sequence 27, Application US/09599360B
; Patent No. 6548633
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Bougueret, L.
; APPLICANT: Jobert, S.
; TITLE OF INVENTION: Complementary DNA's Encoding Proteins with Sig
; FILE REFERENCE: GENSET.050CP3
; CURRENT APPLICATION NUMBER: US/09/599,360B
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 60/113,686
; PRIOR FILING DATE: 1998-12-22
; PRIOR APPLICATION NUMBER: 60/141,032
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: 09/469,099
; PRIOR FILING DATE: 1999-12-21
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(108) x US-07-945-283-1 (1-8438)
LAspThrProSerGlyThrAsnSerGlyAlaGlyLysLysArgPheGluValLys 25
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AGATGGTCCC-----GAGGGTCCCGGTGG-TCCCGGGTGGAGGTAGA 1522
pAsnAlaValAlaLeuTtpAlaTtpAspIleValValAspAsnAlaIleCys 45
|||||
G-----TGGTCCGTCATG-----GACTGCCCATCTGC 1489
nHisIleMetAspLeuCysIleGluCysGlnAlaAsnGlnAlaSerAlaThrSer 65
|||||
-----CTGGACGTC-----GCGGCCACC 1471
uCysThrValAlaTtpGlyValCysAsnHisAlaPheHisPheHisCysIleSer 85
|||||
GCAGACGCTGCCG-----TGCATGCACCAAGTCTCTGTGGACTGCATCCAG 1420
pLeuLysThrArgGlnValCysProLeuAspAsn 98
|||||
GACCTGACGACGACGCGCTGCCGCTGTGCAAT 1381
lication US/09833381
36
ION:
son, Keith E.
[ON: No. 667218661 Nucleic Acid and Protein Homologs
5800-119
TION NUMBER: US/09/833,381
DATE: 2001-04-11
ON NUMBER: 09/516,448
TE: 2000-02-29
NOS: 2050
EQ for Windows Version 3.0
sapiens
feature
..(4374)
ION: n = A,T,C or G
Length: 4374
Matches: 15
Conservative: 7
ity: 32.61%
Mismatch: 17
Indels: 7
Gaps: 1
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eucysIleGluCysGlnAlaAsnGlnAlaSerAlaThrSerGluGluCysThrVal 70
|||||
TTTGTGCATCTGTATCAGACATGAAATCTGCTGTGATCAGCCCT-----2308
rpGlyValCysAsnHisAlaPheHisPheHisCysIleSerArgTtpLeuLysThr 90
|||||
-----TGCAGTCATTTTTCATGCAGGCTCTCTTAAGAAATGCTGTATGTC 2260
lnValCysProLeu 96
|||
AGACCTGCCCTCTG 2242
lication US/09023655
79
GENERAL INFORMATION:
APPLICANT: Cocks, Benjamin G.
APPLICANT: Susan G. Stuart
APPLICANT: Jeffrey J. Seilhamer
TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL
TITLE OF INVENTION: EXPRESSION
NUMBER OF SEQUENCES: 1508
CORRESPONDENCE ADDRESS:
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
STREET: 3174 PORTER DRIVE
CITY: PALO ALTO
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/023,655
FILING DATE: HEREWITH
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Zeller, Karen J.
REGISTRATION NUMBER: 37,071
REFERENCE/DOCKET NUMBER: PA-0001 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 855-0555
TELEFAX: (650) 845-4166
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 1621 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: HMCINOT01
CLONE: 002501
US-09-023-655-20
Alignment Scores:
Pred. No.: 0.415 Length: 1621
Score: 85.00 Matches: 24
Percent Similarity: 40.48% Conservative: 10
Best Local Similarity: 28.57% Mismatches: 22
Query Match: 13.80% Indels: 28
DB: 4 Gaps: 4
US-09-541-462B-2 (1-108) x US-09-023-655-20 (1-1621)
Qy 20 LysArgPheGluValLysLysTrpAsnAlaValAlaLeuTtpAlaTtpAspIle--
|||
Db 770 CGTAGGACTGCTGTGAAGAAATTAATTCATCTCCT-----GAAATAAA
Qy 38 -----ValValAspAsnCysAlaIleCysArgAsnHisIleMetAs
|||
Db 818 AGCGCTTACAAGAAATAAATGATGTATGTGCAATCTGCTATCATGAGTTT-----
Qy 53 CysIleGluCysGlnAlaAsnGlnAlaSerAlaThrSerGluGluCysThrValAl
|||
Db 869 -----ACAACATCTGCTCGTATTACA-----
Qy 73 GlyValCysAsnHisAlaPheHisPheHisCysIleSerArgTtpLeuLysThrAr
|||
Db 890 ---CCGTGTAATCATTTTCCATGCACCTTTCGCTTCGGAATCGCTGTACATTCA
Qy 93 ValCysProLeu 96
|||

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us-09-541-462b-2.apr14.rni

NTTCAATG 958

April 14, 2004, 09:05:24

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

c search, using frame_plus_p2n model

il 14, 2004, 09:03:15 ; Search time 333 Seconds
(without alignments)
1410.091 Million cell updates/sec

-09-541-462B-2

AAAMDVDTPTSGTNSGAKK.....KTRQVCPLDNREWEFOKYGH 108

SUM62

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ipop 10.0 , Xgapext 0.5
ipop 6.0 , Fgapext 7.0
lop 6.0 , Delext 7.0

14225 seqs, 217388994 residues

s satisfying chosen parameters: 5628450

hth: 0

hth: 2000000000

Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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model -DEV=xlh

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=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62

-LIST=45 -DOALIGN=200 -THR SCORE=pct -THR MAX=100

15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0

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UT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5

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/cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq:

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/cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq:

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/cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:

/cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:

the number of results predicted by chance to have a
r than or equal to the score of the result being printed,
ed by analysis of the total score distribution.

SUMMARIES

| ery | rch | Length | DB | ID | Description |
|-----|-----|--------|----|----|-------------|
|-----|-----|--------|----|----|-------------|

| | | | | | | |
|----|-------|-------|------|----|----------------------|----------|
| 1 | 616 | 100.0 | 433 | 12 | US-10-085-783A-43377 | Sequence |
| 2 | 616 | 100.0 | 433 | 15 | US-10-242-535A-43377 | Sequence |
| 3 | 616 | 100.0 | 453 | 12 | US-10-085-783A-35025 | Sequence |
| 4 | 616 | 100.0 | 453 | 15 | US-10-242-535A-35025 | Sequence |
| 5 | 616 | 100.0 | 467 | 12 | US-10-085-783A-39933 | Sequence |
| 6 | 616 | 100.0 | 467 | 15 | US-10-242-535A-39933 | Sequence |
| 7 | 616 | 100.0 | 471 | 12 | US-10-085-783A-57254 | Sequence |
| 8 | 616 | 100.0 | 471 | 15 | US-10-242-535A-57254 | Sequence |
| 9 | 616 | 100.0 | 472 | 12 | US-10-085-783A-56068 | Sequence |
| 10 | 616 | 100.0 | 472 | 15 | US-10-242-535A-56068 | Sequence |
| 11 | 616 | 100.0 | 523 | 12 | US-10-085-783A-46292 | Sequence |
| 12 | 616 | 100.0 | 523 | 15 | US-10-242-535A-46292 | Sequence |
| 13 | 611 | 99.2 | 476 | 10 | US-09-918-995-17191 | Sequence |
| 14 | 607 | 98.5 | 4543 | 14 | US-10-198-846-11311 | Sequence |
| 15 | 603 | 97.9 | 430 | 12 | US-10-085-783A-54751 | Sequence |
| 16 | 603 | 97.9 | 430 | 15 | US-10-242-535A-54751 | Sequence |
| 17 | 596 | 96.8 | 380 | 9 | US-09-960-352-4677 | Sequence |
| 18 | 573 | 93.0 | 5347 | 14 | US-10-240-965-99 | Sequence |
| 19 | 554 | 89.9 | 5111 | 14 | US-10-205-823-382 | Sequence |
| 20 | 545 | 88.5 | 468 | 12 | US-10-085-783A-47656 | Sequence |
| 21 | 545 | 88.5 | 468 | 15 | US-10-242-535A-47656 | Sequence |
| 22 | 522.5 | 84.8 | 619 | 12 | US-10-425-114-25647 | Sequence |
| 23 | 518.5 | 84.2 | 824 | 12 | US-10-424-599-6074 | Sequence |
| 24 | 515.5 | 83.7 | 390 | 9 | US-09-770-791-20 | Sequence |
| 25 | 509.5 | 82.7 | 486 | 12 | US-10-085-783A-52747 | Sequence |
| 26 | 509.5 | 82.7 | 486 | 15 | US-10-242-535A-52747 | Sequence |
| 27 | 506.5 | 82.2 | 818 | 12 | US-10-424-599-78589 | Sequence |
| 28 | 501.5 | 81.4 | 3208 | 9 | US-09-780-016-27 | Sequence |
| 29 | 501.5 | 81.4 | 3208 | 14 | US-10-214-811-27 | Sequence |
| 30 | 493 | 80.0 | 475 | 12 | US-10-085-783A-50604 | Sequence |
| 31 | 493 | 80.0 | 475 | 15 | US-10-242-535A-50604 | Sequence |
| 32 | 480 | 77.9 | 300 | 12 | US-10-085-783A-48516 | Sequence |
| 33 | 480 | 77.9 | 300 | 15 | US-10-242-535A-48516 | Sequence |
| 34 | 432 | 70.1 | 464 | 12 | US-10-085-783A-58211 | Sequence |
| 35 | 432 | 70.1 | 464 | 15 | US-10-242-535A-58211 | Sequence |
| 36 | 424.5 | 68.9 | 358 | 12 | US-10-062-727-181 | Sequence |
| 37 | 411 | 66.7 | 450 | 12 | US-10-085-783A-31405 | Sequence |
| 38 | 411 | 66.7 | 450 | 15 | US-10-242-535A-31405 | Sequence |
| 39 | 408 | 66.2 | 370 | 12 | US-10-085-783A-19847 | Sequence |
| 40 | 408 | 66.2 | 370 | 15 | US-10-242-535A-19847 | Sequence |
| 41 | 407.5 | 66.2 | 462 | 12 | US-10-424-599-6073 | Sequence |
| 42 | 396 | 64.3 | 439 | 10 | US-09-918-995-14771 | Sequence |
| 43 | 377 | 61.2 | 273 | 12 | US-10-085-783A-46883 | Sequence |
| 44 | 377 | 61.2 | 273 | 15 | US-10-242-535A-46883 | Sequence |
| 45 | 361 | 58.6 | 325 | 12 | US-10-085-783A-53800 | Sequence |

ALIGNMENTS

RESULT 1

US-10-085-783A-43377

Sequence 43377, Application US/10085783A

Publication No. US20040037841A1

GENERAL INFORMATION:

APPLICANT: ChondroGene Inc.

APPLICANT: Liaw, C.C.

FILE OF INVENTION: Compositions and Methods Relating to Osteoarthritis

FILE REFERENCE: 4231/2002

CURRENT FILING DATE: 2002-02-28

CURRENT APPLICATION NUMBER: US/10/085,783A

PRIOR FILING DATE: 2001-07-13

PRIOR APPLICATION NUMBER: US 60/305,340

PRIOR FILING DATE: 2001-03-12

PRIOR APPLICATION NUMBER: US 60/271,955

PRIOR FILING DATE: 2001-02-28

NUMBER OF SEQ ID NOS: 58994

SOFTWARE: Patent in version 3.2

SEQ ID NO 43377

LENGTH: 433

TYPE: DNA

ORGANISM: Human

US-10-085-783A-43377

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2 43e-75      Length:      433
616.00      Matches:      108
100.00%     Conservative: 0
city:       100.00%     Mismatches: 0
100.00%     Indels:      0
12          Gaps:        0

(1-108) x US-10-085-783A-43377 (1-433)

AlaAlaMetAspValAspThrProSerGlyThrAsnSerGlyAlaGlyLysLys 20
FCGGCAGCGATGGATGTGGATACCCGAGCGGCACCAACAGCGCGCGGCAAGAAG 79

PheGluValLysLysTrpAsnAlaValAlaLeuTrpAlaTrpAspIleValValAsp 40
TTTGAAGTGAAGAAGTGAATGAGTAGCCCTCTGGCCCTGGGATATTGGTGTGAT 139

CysAlaIleCysArgAsnHisIleMetAspLeuCysIleGluCysGlnAlaAsnGln 60
TGTGCATCTGCAGGAACCAACATTATGGATCTTTGCATAGATGTCAGCTAACCAG 199

SerAlaThrSerGluGluCysThrValAlaTrpGlyValCysAsnHisAlaPheHis 80
TCCGCTACTTCAAGAAGTGTACTGTGCGCATGGGAGTCTGTAAACCATGCTTTTCAC 259

HisCysIleSerArgTrpLeuLysThrArgGlnValCysProLeuAspAsnArgGlu 100
TACTGATCTCTGCTGGCTCAAAACAGCAGGTGTGTCATTTGGACACAGAGAG 319

GluPheGlnLysTyrGlyHis 108
TAAATTCAAAAGTATGGGCAC 343

377
Application US/10242535A
US20040013663A1
TION:
aw, C.C.
TION: Compositions and Methods Relating to Osteoarthritis
: 4231/2005
ATION NUMBER: US/10/242,535A
DATE: 2002-09-12
ION NUMBER: US 10/085,783
ATE: 2002-02-28
ION NUMBER: US 60/305,340
ATE: 2001-07-13
ION NUMBER: US 60/275,017
ATE: 2001-03-12
ION NUMBER: US 60/271,955
ATE: 2001-02-28
ID NOS: 58994
itIn version 3.2

an
377

2 43e-75      Length:      433
616.00      Matches:      108
100.00%     Conservative: 0
city:       100.00%     Mismatches: 0
100.00%     Indels:      0
15          Gaps:        0

(1-108) x US-10-242-535A-43377 (1-433)

AlaAlaMetAspValAspThrProSerGlyThrAsnSerGlyAlaGlyLysLys 20

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Db      20  ATGGCGGCGAGCGATGGATGTGGATACCCGAGCGGCACCAACAGCGCGCGGGCA
QY      21  ArgPheGluValLysLysTrpAsnAlaValAlaLeuTrpAlaTrpAspIleValV
Db      80  CGCTTTGAAGTGAAGAAGTGAATGAGTAGCCCTCTGGCCCTGGGATATTGGTGG
QY      41  AsnCysAlaIleCysArgAsnHisIleMetAspLeuCysIleGluCysGlnAlaA
Db      140  AACTGTGCCATCTGCAGGAACCAACATTATGGATCTTTGCATAGATGTCAAGCTA
QY      61  AlaSerAlaThrSerGluGluCysThrValAlaTrpGlyValCysAsnHisAlaP
Db      200  GCGTCCGCTACTTCAAGAAGTGTACTGTGCGCATGGGAGTCTGTAAACCATGCTT
QY      81  PheHisCysIleSerArgTrpLeuLysThrArgGlnValCysProLeuAspAsnA
Db      260  TTCCATCTGCATCTCTGCGTGGCTCAAAACAGCAGGTGTGTCATTTGGACACAA
QY      101  TrpGluPheGlnLysTyrGlyHis 108
Db      320  TGGGAATTCCAAAGTATGGGCAC 343

RESULT 3
US-10-085-783A-35025
; Sequence 35025, Application US/10085783A
; Publication No. US20040037841A1
; GENERAL INFORMATION:
; APPLICANT: ChondroGene Inc.
; APPLICANT: Liew, C.C.
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoar
; FILE REFERENCE: 4231/2002
; CURRENT APPLICATION NUMBER: US/10/085,783A
; CURRENT FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 35025
; LENGTH: 453
; TYPE: DNA
; ORGANISM: Human
US-10-085-783A-35025

Alignment Scores:
Pred. No.:      2.58e-75      Length:      453
Score:          616.00      Matches:      108
Percent Similarity: 100.00%      Conservative: 0
Best Local Similarity: 100.00%      Mismatches: 0
Query Match:     100.00%      Indels:       0
DB:              12          Gaps:         0

US-09-541-462B-2 (1-108) x US-10-085-783A-35025 (1-453)

QY      1  MetAlaAlaAlaMetAspValAspThrProSerGlyThrAsnSerGlyAlaGlyL
Db      24  ATGGCGGCGAGCGATGGATGTGGATACCCGAGCGGCACCAACAGCGCGCGGGCA
QY      21  ArgPheGluValLysLysTrpAsnAlaValAlaLeuTrpAlaTrpAspIleValV
Db      84  CGCTTTGAAGTGAAGAAGTGAATGAGTAGCCCTCTGGCCCTGGGATATTGGTGG
QY      41  AsnCysAlaIleCysArgAsnHisIleMetAspLeuCysIleGluCysGlnAlaA
Db      144  AACTGTGCCATCTGCAGGAACCAACATTATGGATCTTTGCATAGATGTCAAGCTA
QY      61  AlaSerAlaThrSerGluGluCysThrValAlaTrpGlyValCysAsnHisAlaP
Db      204  GCGTCCGCTACTTCAAGAAGTGTACTGTGCGCATGGGAGTCTGTAAACCATGCTT

```

isCysIleSerArgTrpLeuLysThrArgGlnValCysProLeuAspAsnArgGlu 100
 ACTGCATCTCTCGCTGGCTCAAAACACGACAGGTGTGTCCATTGGACACAGAGAG 323

luPheGlnLysTyrGlyHis 108
 AATTCCAAAAGTATGGGCAC 347

25 Application US/10242535A
 US20040013663A1

ION:
 droGene Inc.
 w, C.C.

ION: Compositions and Methods Relatiing to Osteoarthritis
 4231/2005

TION NUMBER: US/10/242,535A

DATE: 2002-09-12

ON NUMBER: US 10/085,783

TE: 2002-02-28

ON NUMBER: US 60/305,340

TE: 2001-07-13

ON NUMBER: US 60/275,017

TE: 2001-03-12

ON NUMBER: US 60/271,955

TE: 2001-02-28

D NOS: 58994

tin version 3.2

n 25

2.58e-75 Length: 453
 616.00 Matches: 108
 100.00% Conservative: 0
 100.00% Mismatches: 0
 100.00% Indels: 0
 15 Gaps: 0

1-108) x US-10-242-535A-35025 (1-453)

laAlaAlaMetAspValAspThrProSerGlyThrAsnSerGlyValAlaGlyLys 20
 CGGCAGCGATGGATGTGATACCCGAGCGGCACACAGCGCGCGGCAAGAG 83

heGluValLysLysTrpAsnAlaValAlaLeuTrpAlaTrpAspIleValValAsp 40
 TTGAAGTGAAGTGAATGCAATGCAATGCAATGCAATGCAATGCAATGCAAT 143

ysAlaIleCysArgAsnHisIleMetAspLeuCysIleGluCysGlnAlaAsnGln 60
 GTGCCATCTGCAGGAACACATATTATGATCTTTGCATAGATGTCACAGTAA 203

erAlaThrSerGluGluCysThrValAlaTrpGlyValCysAsnHisAlaPheHis 80
 CCGTACTCTCAGAGAGTGTACTGTGCGATGGGAGTCTGTAACCATGCTTTT 263

isCysIleSerArgTrpLeuLysThrArgGlnValCysProLeuAspAsnArgGlu 100
 ACTGCATCTCTCGCTGGCTCAAAACACGACAGGTGTGTCCATTGGACACAGAGAG 323

luPheGlnLysTyrGlyHis 108
 AATTCCAAAAGTATGGGCAC 347

33 Application US/10085783A

Publication No. US20040037841A1
 GENERAL INFORMATION:
 APPLICANT: ChondroGene Inc.

APPLICANT: Liew, C.C.

TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis

FILE REFERENCE: 4231/2002

CURRENT APPLICATION NUMBER: US/10/085,783A

CURRENT FILING DATE: 2002-02-28

PRIOR APPLICATION NUMBER: US 60/305,340

PRIOR FILING DATE: 2001-07-13

PRIOR APPLICATION NUMBER: US 60/275,017

PRIOR FILING DATE: 2001-03-12

PRIOR APPLICATION NUMBER: US 60/271,955

PRIOR FILING DATE: 2001-02-28

NUMBER OF SEQ ID NOS: 58994

SOFTWARE: PatentIn version 3.2

SEQ ID NO 39933

LENGTH: 467

TYPE: DNA

ORGANISM: Human

US-10-085-783A-39933

Alignment Scores:

Pred. No.: 2.7e-75 Length: 467

Score: 616.00 Matches: 108

Percent Similarity: 100.00% Conservative: 0

Best Local Similarity: 100.00% Mismatches: 0

Query Match: 100.00% Indels: 0

DB: 12 Gaps: 0

US-09-541-462B-2 (1-108) x US-10-085-783A-39933 (1-467)

Qy 1 MetAlaAlaMetAspValAspThrProSerGlyThrAsnSerGlyValAlaGlyLys 108

Db 20 ATGGCGGCGAGTGGATGTGATACCCGAGCGGCACACAGCGCGCGGCAAG 108

Qy 21 ArgPheGluValLysLysTrpAsnAlaValAlaLeuTrpAlaTrpAspIleValVal 108

Db 80 CGCTTTGAAGTGAAGTGAATGCAATGCAATGCAATGCAATGCAATGCAAT 108

Qy 41 AsnCysAlaIleCysArgAsnHisIleMetAspLeuCysIleGluCysGlnAlaAs 108

Db 140 AACTGTGCCATCTGCAGGAACACATATTATGATCTTTGCATAGATGTCACAGT 108

Qy 61 AlaSerAlaThrSerGluGluCysThrValAlaTrpGlyValCysAsnHisAlaPhe 108

Db 200 GCGTCGCTACTTTCAGAGAGTGTACTGTGCGATGGGAGTCTGTAACCATGCTTT 108

Qy 81 PheHisCysIleSerArgTrpLeuLysThrArgGlnValCysProLeuAspAsnHis 108

Db 260 TTCCACTGCATCTCTCGCTGGCTCAAAACACGACAGGTGTGTCCATTGGACAC 108

Qy 101 TrpGluPheGlnLysTyrGlyHis 108

Db 320 TGGGAATTCGAGTATGGGCAC 343

RESULT 6

US-10-242-535A-39933

Sequence 39933, Application US/10242535A

Publication No. US20040013663A1

GENERAL INFORMATION:

APPLICANT: ChondroGene Inc.

APPLICANT: Liew, C.C.

TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis

FILE REFERENCE: 4231/2005

CURRENT APPLICATION NUMBER: US/10/242,535A

CURRENT FILING DATE: 2002-09-12

PRIOR APPLICATION NUMBER: US 10/085,783

PRIOR FILING DATE: 2002-02-28

PRIOR APPLICATION NUMBER: US 60/305,340

PRIOR FILING DATE: 2001-07-13

PRIOR APPLICATION NUMBER: US 60/275,017

PRIOR FILING DATE: 2001-03-12

ION NUMBER: US 60/271,955
 DATE: 2001-02-28
 ID NOS: 58994
 nIn version 3.2

nan
 9933

2,7e-75 Length: 467
 616.00 Matches: 108
 Conservativity: 0
 Mismatches: 0
 Indels: 0
 Gaps: 0
 15

(1-108) x US-10-242-535A-39933 (1-467)

AlaAlaMetAspValAspThrProSerGlyThrAsnSerGlyValAlaGlyLysLys 20
 CGCGGAGCGATGGATGGATACCCCGAGCGGCCAACACAGCGCGCGGCGGAGAG 79
 PheGluValLysLysTrpAsnAlaValAlaLeuTrpAlaTrpAspIleValValasp 40
 TTGGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 139
 CysAlaIleCysArgAsnHisIleMetAspLeuGluCysGlnAlaAsnGln 60
 TGTGCACTCTGAGGAAACCATATATGATCTTTGCATAGATGTCAAGCTTAACCG 199
 SerAlaThrSerGluGluCysThrValAlaTrpGlyValCysAsnHisAlaPheHis 80
 TCCGCTACTTCAGAGAGTGTACTGTCGATGGGAGTCTGTAAACCATGCTTTTAC 259
 HisCysIleSerArgTrpLeuLysThrArgGlnValCysProLeuAspAsnArgGlu 100
 CACTGCATCTCTCGCTGGCTCAAAACACGACAGGTGTGTCCATTGGACACAGAG 319
 GluPheGlnLysTrpGlyHis 108
 TGGATTCCTCAAAAGTATGGGCAC 343
 ChondroGene Inc.

254
 Application US/10085783A
 US20040037841A1
 TION:
 ChondroGene Inc.
 sw, C.C.

ION: Compositions and Methods Relating to Osteoarthritis
 DATE: 2002-02-28
 ION NUMBER: US 60/305,340
 ATE: 2001-07-13
 ION NUMBER: US 60/275,017
 ATE: 2001-03-12
 ION NUMBER: US 60/271,955
 ATE: 2001-02-28
 ID NOS: 58994
 nIn version 3.2

nan
 254

2,73e-75 Length: 471
 616.00 Matches: 108
 Conservativity: 0

Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 12 Gaps: 0

US-09-541-462B-2 (1-108) x US-10-085-783A-57254 (1-471)

QY 1 MetAlaAlaMetAspValAspThrProSerGlyThrAsnSerGlyValAlaGly 471
 DB 17 ATGGCGGAGCGATGGATGGATACCCCGAGCGGCCAACACAGCGCGCGGCGG 108
 QY 21 ArgPheGluValLysLysTrpAsnAlaValAlaLeuTrpAlaTrpAspIleVal 471
 DB 77 CGCTTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 108
 QY 41 AsnCysAlaIleCysArgAsnHisIleMetAspLeuGluCysGlnAla 471
 DB 137 AACTGTGCCATCTCGAGGAACCATATGATCTTTGCATAGATGTCAAGCT 108
 QY 61 AlaSerAlaThrSerGluGluCysThrValAlaTrpGlyValCysAsnHisAla 471
 DB 197 GCGTCCGCTACTTCAGAGAGTGTACTGTCGATGGGAGTCTGTAAACCATGCT 108
 QY 81 PheHisCysIleSerArgTrpLeuLysThrArgGlnValCysProLeuAspAsn 471
 DB 257 TTCCACTGCATCTCTCGCTGGCTCAAAACACGACAGGTGTGTCCATTGGACAC 108
 QY 101 TrpGluPheGlnLysTrpGlyHis 108
 DB 317 TGGGAATTCCTCAAAAGTATGGGCAC 340

RESULT 8

US-10-242-535A-57254
 ; Sequence 57254, Application US/10242535A
 ; Publication No. US20040013663A1
 ; GENERAL INFORMATION:
 ; APPLICANT: ChondroGene Inc.
 ; APPLICANT: Liew, C.C.
 ; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis
 ; FILE REFERENCE: 4231/2005
 ; CURRENT APPLICATION NUMBER: US/10/242,535A
 ; CURRENT FILING DATE: 2002-09-12
 ; PRIOR APPLICATION NUMBER: US 10/085,783
 ; PRIOR FILING DATE: 2002-02-28
 ; PRIOR APPLICATION NUMBER: US 60/305,340
 ; PRIOR FILING DATE: 2001-07-13
 ; PRIOR APPLICATION NUMBER: US 60/275,017
 ; PRIOR FILING DATE: 2001-03-12
 ; PRIOR APPLICATION NUMBER: US 60/271,955
 ; PRIOR FILING DATE: 2001-02-28
 ; NUMBER OF SEQ ID NOS: 58994
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO 57254
 ; LENGTH: 471
 ; TYPE: DNA
 ; ORGANISM: Human
 ; US-10-242-535A-57254

Alignment Scores:
 Pred. No.: 2,73e-75 Length: 471
 Score: 616.00 Matches: 108
 Percent Similarity: 100.00% Conservativity: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 15 Gaps: 0

US-09-541-462B-2 (1-108) x US-10-242-535A-57254 (1-471)

QY 1 MetAlaAlaMetAspValAspThrProSerGlyThrAsnSerGlyValAlaGly 471
 DB 17 ATGGCGGAGCGATGGATGGATACCCCGAGCGGCCAACACAGCGCGCGGCGG 108
 QY 21 ArgPheGluValLysLysTrpAsnAlaValAlaLeuTrpAlaTrpAspIleVal 471

07:44:24 2004

us-09-541-462b-2.apr14.rnpb

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TTGAAGTGAAGAAAGTGGAAATGAGTGGCCCTCTGGCCCTGGGATATTGGTTGAT 136
YsAlaIleCysArgAsnHisIleMetAspLeuCysGlnAlaAsnGln 60
GTGCCATCTGCAGGAACACACATTATGGATCTTTGCATAGAAATGTCAAGCTAACCA 196
ArAlaThrSerGluGluCysThrValAlaTrpGlyValCysAsnHisAlaPheHis 80
CCGCTACTTCAGAGAGTGTACTGTGCGATGGGAGTCTGTAACCATCTTTTCAC 256
IisCysIleSerArgTrpLeuLysThrArgGlnValCysProLeuAspAsnArgGlu 100
ACTGCATCTCTCGTGGTCAAAACACGACAGGTGTGTCATTTGGACACACAGAG 316
luPheGlnLysTyGlyHis 108
AATTCAAAAGTATGGGCAC 340
68
Application US/10085783A
US20040037841A1
ION:
droGene Inc.
w, C. C.
ION: Compositions and Methods Relating to Osteoarthritis
4231/2002
TION NUMBER: US/10/085,783A
DATE: 2002-02-28
ON NUMBER: US 60/305,340
TE: 2001-07-13
ON NUMBER: US 60/275,017
TE: 2001-03-12
ON NUMBER: US 60/271,955
TE: 2001-02-28
D NOS: 58994
tIn version 3.2
n
feature
Y..(437)
ION: n is a, c, g, or t
feature
Y..(455)
ION: n is a, c, g, or t
58
2.74e-75 Length: 472
616.00 Matches: 108
100.00% Conservative: 0
ity: 100.00% Mismatches: 0
100.00% Indels: 0
12 Gaps: 0
1-108) x US-10-085-783A-56068 (1-472)
laAlaAlaMetAspValAspThrProSerGlyThrAsnSerGlyAlaGlyLysLys 20
CGGCAGCGATGGATGTGGATACCCCGAGCGCACCAACAGCGCGCGGCAAGAG 79
heGluValLysLysTrpAsnAlaValAlaLeuTrpAlaTrpAspIleValValAsp 40
TTGAAGTGAAGAAAGTGGAAATGAGTGGCCCTCTGGCCCTGGGATATTGGTTGAT 139
YsAlaIleCysArgAsnHisIleMetAspLeuCysGlnAlaAsnGln 60
GTGCCATCTGCAGGAACACACATTATGGATCTTTGCATAGAAATGTCAAGCTAACCA 199
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QY 61 AlaSerAlaThrSerGluGluCysThrValAlaTrpGlyValCysAsnHisAlap
Db 200 GGGTCCGCTACTTCAGAGAGTGTACTGTGCGATGGGAGTCTGTAACCATGCTT
QY 81 PheHisCysIleSerArgTrpLeuLysThrArgGlnValCysProLeuAspAsnA
Db 260 TTCCACTCATCTCTCGTGGTCAAAACACGACAGGTGTGTCATTTGGACAACA
QY 101 TrpGluPheGlnLysTyGlyHis 108
Db 320 TGGGAATTCAAAAGTATGGGCAC 343
RESULT 10
US-10-242-535A-56068
; Sequence 56068, Application US/10242535A
; Publication No. US20040013663A1
; GENERAL INFORMATION:
; APPLICANT: ChondroGene Inc.
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis
; FILE REFERENCE: 4231/2005
; CURRENT APPLICATION NUMBER: US/10/242,535A
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: US 10/085,783
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 56068
; LENGTH: 472
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (437)..(437)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (455)..(455)
; OTHER INFORMATION: n is a, c, g, or t
US-10-242-535A-56068
Alignment Scores:
Pred. No.: 2.74e-75 Length: 472
Score: 616.00 Matches: 108
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 15 Gaps: 0
US-09-541-462B-2 (1-108) x US-10-242-535A-56068 (1-472)
QY 1 MetAlaAlaAlaMetAspValAspThrProSerGlyThrAsnSerGlyAlaGlyLys
Db 20 ATGGCGGAGGATGGATGTGGATACCCCGAGCGCACCAACAGCGCGCGGCAAG
QY 21 ArgPheGluValLysLysTrpAsnAlaValAlaLeuTrpAlaTrpAspIleValVal
Db 80 CGCTTTCAAGTGAAGAAAGTGGAAATGAGTGGCCCTCTGGCCCTGGGATATTGGT
QY 41 AsnCysAlaIleCysArgAsnHisIleMetAspLeuCysGlnAlaAsn
Db 140 AACTGTGCCATCTGCAGGAACACCAATTATGGATCTTTGCATAGAAATGTCAAGCTAA
QY 61 AlaSerAlaThrSerGluGluCysThrValAlaTrpGlyValCysAsnHisAlaph
Db 200 GCGTCCGCTACTTCAGAGAGTGTACTGTGCGATGGGAGTCTGTAACCATGCTT
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HisCysIleSerArgTrpLeuLysThrArgGlnValCysProLeuAspAsnArgGlu 100
 TCACTGCATCTCGCTGGCTCAAAACACACAGAGTGTGTCCATTGGACACAGAGAG 319

GluPheGlnLysTyrGlyHis 108
 TGAATTCCTCAAAAGTATGGGCAC 343

5292
 Application US/10085783A
 US20040037841A1

ndroGene Inc.
 Liew, C.C.

ATION: Compositions and Methods Relating to Osteoarthritis
 3: 4231/2002
 CATION NUMBER: US/10/085,783A

3 DATE: 2002-02-28
 CION NUMBER: US 60/305,340
 DATE: 2001-07-13

CION NUMBER: US 60/275,017
 DATE: 2001-03-12
 CION NUMBER: US 60/271,955
 DATE: 2001-02-28

ID NOS: 58994
 nIn version 3.2

lan
 292

3.16e-75 Length: 523
 616.00 Matches: 108
 100.00% Conservative: 0
 100.00% Mismatches: 0
 100.00% Indels: 0
 12 Gaps: 0

(1-108) x US-10-085-783A-46292 (1-523)

AlaAlaAlaMetAspValAsnThrProSerGlyThrAsnSerGlyAlaGlyLys 20
 TCGGCAGCGAGTGGATGGATACCCCGAGCGGCACCAACAGCGCGGCAAGAAG 78

PheGluValLysLysTrpAsnAlaValAlaLeuTrpAlaTrpAspIleValValasp 40
 TTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 138

CysAlaIleCysArgAsnHisIleMetAspLeuLysGlnCysGlnAlaAsnGln 60
 TGTGCCATCTCGCTGGCTCAAAACACAGAGTGTGTCCATTGGACACAGAGAG 198

SerAlaThrSerGluGluCysThrValAlaTrpGlyValCysAsnHisAlaPheHis 80
 TCCGCTACTTCAGAAAGTGTACTGTCCGATGGGAGTGTGTAAACCATGCTTTTCAC 258

HisCysIleSerArgTrpLeuLysThrArgGlnValCysProLeuAspAsnArgGlu 100
 CACTGCATCTCGCTGGCTCAAAACACAGAGTGTGTCCATTGGACACAGAGAG 318

GluPheGlnLysTyrGlyHis 108
 TGAATTCCTCAAAAGTATGGGCAC 342

292
 Application US/1024253A
 US20040013663A1
 TION:
 ndroGene Inc.

APPLICANT: Liew, C.C.
 TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis

FILE REFERENCE: 4231/2005
 CURRENT APPLICATION NUMBER: US/10/242,535A

CURRENT FILING DATE: 2002-09-12
 PRIOR APPLICATION NUMBER: US 10/085,783

PRIOR FILING DATE: 2002-02-28
 PRIOR APPLICATION NUMBER: US 60/305,340

PRIOR FILING DATE: 2001-07-13
 PRIOR APPLICATION NUMBER: US 60/275,017

PRIOR FILING DATE: 2001-03-12
 PRIOR APPLICATION NUMBER: US 60/271,955

PRIOR FILING DATE: 2001-02-28
 NUMBER OF SEQ ID NOS: 58994

SOFTWARE: PatentIn version 3.2
 SEQ ID NO 46292

LENGTH: 523
 TYPE: DNA

ORGANISM: Human
 US-10-242-535A-46292

Alignment Scores:
 Pred No.: 3.16e-75 Length: 523

Score: 616.00 Matches: 108

Percent Similarity: 100.00% Conservative: 0

Best Local Similarity: 100.00% Mismatches: 0

Query Match: 100.00% Indels: 0

DB: 15 Gaps: 0

US-09-541-462B-2 (1-108) x US-10-242-535A-46292 (1-523)

Qy 1 MetAlaAlaMetAspValAsnThrProSerGlyThrAsnSerGlyAlaGly 108
 Db 19 ATGGCGGCGAGTGGATGGATACCCCGAGCGGCACCAACAGCGCGGCGGC 319

Qy 21 ArgPheGluValLysLysTrpAsnAlaValAlaLeuTrpAlaTrpAspIleVal 40
 Db 79 CGCTTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 138

Qy 41 AsnCysAlaIleCysArgAsnHisIleMetAspLeuLysGlnCysGlnAla 60
 Db 139 AACTGTGCCATCTCGCTGGCTCAAAACACAGAGTGTGTCCATTGGACACAGAG 198

Qy 61 AlaSerAlaThrSerGluGluCysThrValAlaTrpGlyValCysAsnHisAla 80
 Db 199 GCGTCCGCTACTTCAGAAAGTGTACTGTCCGATGGGAGTGTGTAAACCATGCT 258

Qy 81 PheHisCysIleSerArgTrpLeuLysThrArgGlnValCysProLeuAspAsn 100
 Db 259 TTCACCTGCATCTCTCGCTGGCTCAAAACACAGAGTGTGTCCATTGGACACAG 318

Qy 101 TrpGluPheGlnLysTyrGlyHis 108
 Db 319 TGGGAATTCCTCAAAAGTATGGGCAC 342

RESULT 13

US-09-541-462B-2 (1-108) x US-10-242-535A-46292 (1-523)

Sequence 17191, Application US/09918995
 Publication No. US20030073623A1

GENERAL INFORMATION:
 APPLICANT: Hyseq, Inc.

TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED FROM VARIOUS CDNA LIBRARIES

FILE REFERENCE: 20411-756
 CURRENT APPLICATION NUMBER: US/09/918,995

CURRENT FILING DATE: 2001-07-30
 PRIOR APPLICATION NUMBER: US/09/235,076

PRIOR FILING DATE: 1999-01-20
 NUMBER OF SEQ ID NOS: 38054

SOFTWARE: FastSeq for Windows Version 3.0
 SEQ ID NO 17191

LENGTH: 476
 TYPE: DNA

07:44:24 2004

us-09-541-462b-2.apr14.rnpb

aSerAlaThrSerGluGluCysThrValAlaTrpGlyValCysAsnHisAlaPheHi 80
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GTCCGCTACTTCAGAAAGAGTGTAAGTGGGAGTCTGTAACCATGCTTTTCA 260
eHisCysIleSerArgTrpLeuLysThrArgGlnValCysProLeuAspAsnArgGl 100
|||||
CCACTGCACTCTCTCGCTGGCTCAAAACACGACAGGTGTCTCCATTGGACAAACAGAGA 320
pGluPheGlnLysTyrGlyHis 108
|||||
GGAAATCCAAAGTATGGGCAC 345

April 14, 2004, 09:55:56
cs